

## HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use BLENREP safely and effectively. See full prescribing information for BLENREP.

**BLENREP (belantamab mafodotin-blmf) for injection, for intravenous use**  
Initial U.S. Approval: 2020

### WARNING: OCULAR TOXICITY

See full prescribing information for complete boxed warning.

- **BLENREP caused changes in the corneal epithelium resulting in changes in vision, including severe vision loss and corneal ulcer, and symptoms, such as blurred vision and dry eyes. (5.1)**
- **Conduct ophthalmic exams at baseline, prior to each dose, and promptly for worsening symptoms. Withhold BLENREP until improvement and resume, or permanently discontinue, based on severity. (2.3, 5.1)**
- **BLENREP is available only through a restricted program, called the BLENREP REMS. (5.2)**

### INDICATIONS AND USAGE

BLENREP is a B-cell maturation antigen (BCMA)-directed antibody and microtubule inhibitor conjugate indicated for the treatment of adult patients with relapsed or refractory multiple myeloma who have received at least 4 prior therapies including an anti-CD38 monoclonal antibody, a proteasome inhibitor, and an immunomodulatory agent.

This indication is approved under accelerated approval based on response rate. Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trial(s). (1)

### DOSAGE AND ADMINISTRATION

- The recommended dosage is 2.5 mg/kg as an intravenous infusion over approximately 30 minutes once every 3 weeks. (2.2)
- See Full Prescribing Information for instructions on preparation and administration. (2.4)

### DOSAGE FORMS AND STRENGTHS

For injection: 100 mg as a lyophilized powder in a single-dose vial for reconstitution and further dilution. (3)

### CONTRAINDICATIONS

None. (4)

### WARNINGS AND PRECAUTIONS

- **Thrombocytopenia:** Perform complete blood counts at baseline and during treatment as clinically indicated. Consider withholding and/or reducing the dose based on severity. (2.3, 5.3)
- **Infusion-Related Reactions:** Monitor patients for infusion-related reactions. Interrupt and then reduce the rate or permanently discontinue based on the severity. (2.3, 5.4)
- **Embryo-Fetal Toxicity:** Can cause fetal harm. Advise females of reproductive potential of the potential risk to a fetus and to use effective contraception. (5.5, 8.1, 8.3)

### ADVERSE REACTIONS

- The most common adverse reactions ( $\geq 20\%$ ) are keratopathy (corneal epithelium change on eye exam), decreased visual acuity, nausea, blurred vision, pyrexia, infusion-related reactions, and fatigue. (6.1)
- The most common grade 3 or 4 laboratory abnormalities ( $\geq 5\%$ ) are platelets decreased, lymphocytes decreased, hemoglobin decreased, neutrophils decreased, creatinine increased, and gamma-glutamyl transferase increased. (6.1)

**To report SUSPECTED ADVERSE REACTIONS, contact GlaxoSmithKline at 1-888-825-5249 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

### USE IN SPECIFIC POPULATIONS

**Lactation:** Advise not to breastfeed. (8.2)

**See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.**

Revised: 8/2020

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## FULL PRESCRIBING INFORMATION

### WARNING: OCULAR TOXICITY

**BLENREP caused changes in the corneal epithelium resulting in changes in vision, including severe vision loss and corneal ulcer, and symptoms, such as blurred vision and dry eyes [see Warnings and Precautions (5.1)].**

**Conduct ophthalmic exams at baseline, prior to each dose, and promptly for worsening symptoms. Withhold BLENREP until improvement and resume, or permanently discontinue, based on severity [see Dosage and Administration (2.3), Warnings and Precautions (5.1)].**

**Because of the risk of ocular toxicity, BLENREP is available only through a restricted program under a Risk Evaluation and Mitigation Strategy (REMS) called the BLENREP REMS [see Warnings and Precautions (5.2)].**

## 1 INDICATIONS AND USAGE

BLENREP is indicated for the treatment of adults with relapsed or refractory multiple myeloma who have received at least 4 prior therapies, including an anti-CD38 monoclonal antibody, a proteasome inhibitor, and an immunomodulatory agent.

This indication is approved under accelerated approval based on response rate [see *Clinical Studies (14)*]. Continued approval for this indication may be contingent upon verification and description of clinical benefit in a confirmatory trial(s).

## 2 DOSAGE AND ADMINISTRATION

### 2.1 Important Safety Information

Perform an ophthalmic exam prior to initiation of BLENREP and during treatment [see *Warnings and Precautions (5.1)*].

Advise patients to use preservative-free lubricant eye drops and avoid contact lenses unless directed by an ophthalmologist [see *Warnings and Precautions (5.1)*].

### 2.2 Recommended Dosage

The recommended dosage of BLENREP is 2.5 mg/kg of actual body weight given as an intravenous infusion over approximately 30 minutes once every 3 weeks until disease progression or unacceptable toxicity.

### 2.3 Dosage Modifications for Adverse Reactions

The recommended dose reduction for adverse reactions is:

- BLENREP 1.9 mg/kg intravenously once every 3 weeks.

Discontinue BLENREP in patients who are unable to tolerate a dose of 1.9 mg/kg (see Tables 1 and 2).

Corneal Adverse Reactions

The recommended dosage modifications for corneal adverse reactions, based on both corneal examination findings and changes in best-corrected visual acuity (BCVA), are provided in Table 1 [see Warnings and Precautions (5.1)]. Determine the recommended dosage modification of BLENREP based on the worst finding in the worst affected eye. Worst finding should be based on either a corneal examination finding or a change in visual acuity per the Keratopathy and Visual Acuity (KVA) scale.

**Table 1. Dosage Modifications for Corneal Adverse Reactions per the KVA Scale**

<b>Corneal Adverse Reaction</b>		<b>Recommended Dosage Modifications</b>
<b>Grade 1</b>	<p><i>Corneal examination finding(s):</i> Mild superficial keratopathy<sup>a</sup></p> <p><i>Change in BCVA<sup>b</sup>:</i> Decline from baseline of 1 line on Snellen Visual Acuity</p>	Continue treatment at current dose.
<b>Grade 2</b>	<p><i>Corneal examination finding(s):</i> Moderate superficial keratopathy<sup>c</sup></p> <p><i>Change in BCVA<sup>b</sup>:</i> Decline from baseline of 2 or 3 lines on Snellen Visual Acuity and not worse than 20/200</p>	Withhold BLENREP until improvement in both corneal examination findings and change in BCVA to Grade 1 or better and resume at same dose.
<b>Grade 3</b>	<p><i>Corneal examination finding(s):</i> Severe superficial keratopathy<sup>d</sup></p> <p><i>Change in BCVA<sup>b</sup>:</i> Decline from baseline by more than 3 lines on Snellen Visual Acuity and not worse than 20/200</p>	Withhold BLENREP until improvement in both corneal examination findings and change in BCVA to Grade 1 or better and resume at reduced dose.

<b>Grade 4</b>	<p><i>Corneal examination finding(s):</i> Corneal epithelial defect<sup>e</sup></p> <p><i>Change in BCVA<sup>b</sup>:</i> Snellen Visual Acuity worse than 20/200</p>	<p>Consider permanent discontinuation of BLENREP. If continuing treatment, withhold BLENREP until improvement in both corneal examination findings and change in BCVA to Grade 1 or better and resume at reduced dose.</p>
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<sup>a</sup> Mild superficial keratopathy (documented worsening from baseline), with or without symptoms.

<sup>b</sup> Changes in visual acuity due to treatment-related corneal findings.

<sup>c</sup> Moderate superficial keratopathy with or without patchy microcyst-like deposits, sub-epithelial haze (peripheral), or a new peripheral stromal opacity.

<sup>d</sup> Severe superficial keratopathy with or without diffuse microcyst-like deposits, sub-epithelial haze (central), or a new central stromal opacity.

<sup>e</sup> Corneal epithelial defect such as corneal ulcers.

#### Other Adverse Reactions

The recommended dosage modifications for other adverse reactions are provided in Table 2.

**Table 2. Dosage Modifications for Other Adverse Reactions**

<b>Adverse Reaction</b>	<b>Severity</b>	<b>Recommended Dosage Modifications</b>
Thrombocytopenia <i>[see Warnings and Precautions (5.3)]</i>	Platelet count 25,000 to less than 50,000/mcL	Consider withholding BLENREP and/or reducing the dose of BLENREP.
	Platelet count less than 25,000/mcL	Withhold BLENREP until platelet count improves to Grade 3 or better. Consider resuming at a reduced dose.
Infusion-related reactions <i>[see Warnings and Precautions (5.4)]</i>	Grade 2 (moderate) or Grade 3 (severe)	Interrupt infusion and provide supportive care. Once symptoms resolve, resume at lower infusion rate; reduce the infusion rate by at least 50%.
	Grade 4 (life-threatening)	Permanently discontinue BLENREP and provide emergency care.

Other Adverse Reactions [see Adverse Reactions (6.1)]	Grade 3	Withhold BLENREP until improvement to Grade 1 or better. Consider resuming at a reduced dose.
	Grade 4	Consider permanent discontinuation of BLENREP. If continuing treatment, withhold BLENREP until improvement to Grade 1 or better and resume at reduced dose.

## 2.4 Preparation and Administration

BLENREP is a hazardous drug. Follow applicable special handling and disposal procedures.<sup>1</sup>

Calculate the dose (mg), total volume (mL) of solution required, and the number of vials of BLENREP needed based on the patient's actual body weight. More than 1 vial may be needed for a full dose. Do not round down for partial vials.

### Reconstitution

- Remove the vial(s) of BLENREP from the refrigerator and allow to stand for approximately 10 minutes to reach room temperature (68°F to 77°F [20°C to 25°C]).
- Reconstitute each 100-mg vial of BLENREP with 2 mL of Sterile Water for Injection, USP, to obtain a final concentration of 50 mg/mL. Gently swirl the vial to aid dissolution. **Do not shake.**
- If the reconstituted solution is not used immediately, store refrigerated at 36°F to 46°F (2°C to 8°C) or at room temperature (68°F to 77°F [20°C to 25°C]) for up to 4 hours in the original container. Discard if not diluted within 4 hours. Do not freeze.
- Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. The reconstituted solution should be clear to opalescent, colorless to yellow to brown liquid. Discard if extraneous particulate matter is observed.

### Dilution

- Withdraw the calculated volume of BLENREP from the appropriate number of vials and dilute in a 250-mL infusion bag of 0.9% Sodium Chloride Injection, USP, to a final concentration of 0.2 mg/mL to 2 mg/mL. The infusion bags must be made of polyvinylchloride (PVC) or polyolefin (PO).
- Mix the diluted solution by gentle inversion. **Do not shake.**
- Discard any unused reconstituted solution of BLENREP left in the vial(s).

- If the diluted infusion solution is not used immediately, store refrigerated at 36°F to 46°F (2°C to 8°C) for up to 24 hours. **Do not freeze.** Once removed from refrigeration, administer the diluted infusion solution of BLENREP within 6 hours (including infusion time).
- Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. The diluted infusion solution should be clear and colorless. Discard if particulate matter is observed.

### Administration

- If refrigerated, allow the diluted infusion solution to equilibrate to room temperature (68°F to 77°F [20°C to 25°C]) prior to administration. Diluted infusion solution may be kept at room temperature for no more than 6 hours (including infusion time).
- Administer by intravenous infusion over approximately 30 minutes using an infusion set made of polyvinyl chloride (PVC) or polyolefin (PO).
- Filtration of the diluted solution is not required; however, if the diluted solution is filtered, use a polyethersulfone (PES)-based filter (0.2 micron).

Do not mix or administer BLENREP as an infusion with other products. The product does not contain a preservative.

## **3 DOSAGE FORMS AND STRENGTHS**

For injection: 100 mg of belantamab mafodotin-blmf as a white to yellow lyophilized powder in a single-dose vial for reconstitution and further dilution.

## **4 CONTRAINDICATIONS**

None.

## **5 WARNINGS AND PRECAUTIONS**

### **5.1 Ocular Toxicity**

Ocular adverse reactions occurred in 77% of the 218 patients in the pooled safety population. Ocular adverse reactions included keratopathy (76%), changes in visual acuity (55%), blurred vision (27%), and dry eye (19%) [*see Adverse Reactions (6.1)*]. Among patients with keratopathy (n = 165), 49% had ocular symptoms, 65% had clinically relevant visual acuity changes (decline of 2 or more lines on Snellen Visual Acuity in any eye), and 34% had both ocular symptoms and visual acuity changes.

### Keratopathy

Keratopathy was reported as Grade 1 in 7% of patients, Grade 2 in 22%, Grade 3 in 45%, and Grade 4 in 0.5% per the KVA scale. Cases of corneal ulcer (ulcerative and infective keratitis) have been reported. Most keratopathy events developed within the first 2 treatment cycles (cumulative incidence of 65% by Cycle 2). Of the patients with Grade 2 to 4 keratopathy

(n = 149), 39% of patients recovered to Grade 1 or lower after median follow-up of 6.2 months. Of the 61% who had ongoing keratopathy, 28% were still on treatment, 9% were in follow-up, and in 24% the follow-up ended due to death, study withdrawal, or lost to follow up. For patients in whom events resolved, the median time to resolution was 2 months (range: 11 days to 8.3 months).

### Visual Acuity Changes

A clinically significant decrease in visual acuity of worse than 20/40 in the better-seeing eye was observed in 19% of the 218 patients and of 20/200 or worse in the better-seeing eye in 1.4%. Of the patients with decreased visual acuity of worse than 20/40, 88% resolved and the median time to resolution was 22 days (range: 7 days to 4.2 months). Of the patients with decreased visual acuity of 20/200 or worse, all resolved and the median duration was 22 days (range: 15 to 22 days).

### Monitoring and Patient Instruction

Conduct ophthalmic examinations (visual acuity and slit lamp) at baseline, prior to each dose, and promptly for worsening symptoms. Perform baseline examinations within 3 weeks prior to the first dose. Perform each follow-up examination at least 1 week after the previous dose and within 2 weeks prior to the next dose. Withhold BLENREP until improvement and resume at same or reduced dose, or consider permanently discontinuing based on severity [*see Dosage and Administration (2.3)*].

Advise patients to use preservative-free lubricant eye drops at least 4 times a day starting with the first infusion and continuing until end of treatment. Avoid use of contact lenses unless directed by an ophthalmologist [*see Dosage and Administration (2.1)*].

Changes in visual acuity may be associated with difficulty for driving and reading. Advise patients to use caution when driving or operating machinery.

BLENREP is only available through a restricted program under a REMS [*see Warnings and Precautions (5.2)*].

## **5.2 BLENREP REMS**

BLENREP is available only through a restricted program under a REMS called the BLENREP REMS because of the risks of ocular toxicity [*see Warnings and Precautions (5.1)*].

Notable requirements of the BLENREP REMS include the following:

- Prescribers must be certified with the program by enrolling and completing training in the BLENREP REMS.
- Prescribers must counsel patients receiving BLENREP about the risk of ocular toxicity and the need for ophthalmic examinations prior to each dose.
- Patients must be enrolled in the BLENREP REMS and comply with monitoring.

- Healthcare facilities must be certified with the program and verify that patients are authorized to receive BLENREP.
- Wholesalers and distributors must only distribute BLENREP to certified healthcare facilities.

Further information is available, at [www.BLENREPREMS.com](http://www.BLENREPREMS.com) and 1-855-209-9188.

### **5.3 Thrombocytopenia**

Thrombocytopenia occurred in 69% of 218 patients in the pooled safety population, including Grade 2 in 13%, Grade 3 in 10%, and Grade 4 in 17% [*see Adverse Reactions (6.1)*]. The median time to onset of the first thrombocytopenic event was 26.5 days. Thrombocytopenia resulted in dose reduction, dose interruption, or discontinuation in 9%, 2.8%, and 0.5% of patients, respectively.

Grade 3 to 4 bleeding events occurred in 6% of patients, including Grade 4 in 1 patient. Fatal adverse reactions included cerebral hemorrhage in 2 patients.

Perform complete blood cell counts at baseline and during treatment as clinically indicated. Consider withholding and/or reducing the dose based on severity [*see Dosage and Administration (2.3)*].

### **5.4 Infusion-Related Reactions**

Infusion-related reactions occurred in 18% of 218 patients in the pooled safety population, including Grade 3 in 1.8% [*see Adverse Reactions (6.1)*].

Monitor patients for infusion-related reactions. For Grade 2 or 3 reactions, interrupt the infusion and provide supportive treatment. Once symptoms resolve, resume at a lower infusion rate [*see Dosage and Administration (2.3)*]. Administer premedication for all subsequent infusions. Discontinue BLENREP for life-threatening infusion-related reactions and provide appropriate emergency care.

### **5.5 Embryo-Fetal Toxicity**

Based on its mechanism of action, BLENREP can cause fetal harm when administered to a pregnant woman because it contains a genotoxic compound (the microtubule inhibitor, monomethyl auristatin F [MMAF]) and it targets actively dividing cells.

Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment with BLENREP and for 4 months after the last dose. Advise males with female partners of reproductive potential to use effective contraception during treatment with BLENREP and for 6 months after the last dose [*see Use in Specific Populations (8.1, 8.3)*].

## **6 ADVERSE REACTIONS**

The following clinically significant adverse reactions are described elsewhere in the labeling:



- Ocular toxicity [see *Warnings and Precautions (5.1)*].
- Thrombocytopenia [see *Warnings and Precautions (5.3)*].
- Infusion-related reactions [see *Warnings and Precautions (5.4)*].

## 6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared with rates in the clinical trials of another drug and may not reflect the rates observed in practice.

The pooled safety population described in *Warnings and Precautions* reflects exposure to BLENREP at a dosage of 2.5 mg/kg or 3.4 mg/kg (1.4 times the recommended dose) administered intravenously once every 3 weeks in 218 patients in DREAMM-2. Of these patients, 194 received a liquid formulation (not the approved dosage form) rather than the lyophilized powder. Among the 218 patients, 24% were exposed for 6 months or longer.

### Relapsed or Refractory Multiple Myeloma

The safety of BLENREP as a single agent was evaluated in DREAMM-2 [see *Clinical Studies (14.1)*]. Patients received BLENREP at the recommended dosage of 2.5 mg/kg administered intravenously once every 3 weeks (n = 95). Among these patients, 22% were exposed for 6 months or longer.

Serious adverse reactions occurred in 40% of patients who received BLENREP. Serious adverse reactions in >3% of patients included pneumonia (7%), pyrexia (6%), renal impairment (4.2%), sepsis (4.2%), hypercalcemia (4.2%), and infusion-related reactions (3.2%). Fatal adverse reactions occurred in 3.2% of patients, including sepsis (1%), cardiac arrest (1%), and lung infection (1%).

Permanent discontinuation due to an adverse reaction occurred in 8% of patients who received BLENREP; keratopathy (2.1%) was the most frequent adverse reaction resulting in permanent discontinuation.

Dosage interruptions due to an adverse reaction occurred in 54% of patients who received BLENREP. Adverse reactions which required a dosage interruption in >3% of patients included keratopathy (47%), blurred vision (5%), dry eye (3.2%), and pneumonia (3.2%).

Dose reductions due to an adverse reaction occurred in 29% of patients. Adverse reactions which required a dose reduction in >3% of patients included keratopathy (23%) and thrombocytopenia (5%).

The most common adverse reactions ( $\geq 20\%$ ) were keratopathy, decreased visual acuity, nausea, blurred vision, pyrexia, infusion-related reactions, and fatigue. The most common Grade 3 or 4 ( $\geq 5\%$ ) laboratory abnormalities were lymphocytes decreased, platelets decreased, hemoglobin decreased, neutrophils decreased, creatinine increased, and gamma-glutamyl transferase increased.

Table 3 summarizes the adverse reactions in DREAMM-2 for patients who received the recommended dosage of 2.5 mg/kg once every 3 weeks.

**Table 3. Adverse Reactions ( $\geq 10\%$ ) in Patients Who Received BLENREP in DREAMM-2**

Adverse Reactions	BLENREP N = 95	
	All Grades (%)	Grade 3-4 (%)
<b>Eye disorders</b>		
Keratopathy <sup>a</sup>	71	44
Decreased visual acuity <sup>b</sup>	53	28
Blurred vision <sup>c</sup>	22	4
Dry eyes <sup>d</sup>	14	1
<b>Gastrointestinal disorders</b>		
Nausea	24	0
Constipation	13	0
Diarrhea	13	1
<b>General disorders and administration site conditions</b>		
Pyrexia	22	3
Fatigue <sup>e</sup>	20	2
<b>Procedural complications</b>		
Infusion-related reactions <sup>f</sup>	21	3
<b>Musculoskeletal and connective tissue disorders</b>		
Arthralgia	12	0
Back pain	11	2
<b>Metabolic and nutritional disorders</b>		
Decreased appetite	12	0
<b>Infections</b>		
Upper respiratory tract infection <sup>g</sup>	11	0

<sup>a</sup> Keratopathy was based on slit lamp eye examination, characterized as corneal epithelium changes with or without symptoms.

<sup>b</sup> Visual acuity changes were determined upon eye examination.

<sup>c</sup> Blurred vision included diplopia, vision blurred, visual acuity reduced, and visual impairment.

<sup>d</sup> Dry eyes included dry eye, ocular discomfort, and eye pruritus.

<sup>e</sup> Fatigue included fatigue and asthenia.

<sup>f</sup> Infusion-related reactions included infusion-related reaction, pyrexia, chills, diarrhea, nausea, asthenia, hypertension, lethargy, tachycardia.

<sup>g</sup> Upper respiratory tract infection included upper respiratory tract infection, nasopharyngitis, rhinovirus infections, and sinusitis.

Clinically relevant adverse reactions in <10% of patients included:

*Eye Disorders:* Photophobia, eye irritation, infective keratitis, ulcerative keratitis.

*Gastrointestinal Disorders:* Vomiting.

*Infections:* Pneumonia.

*Investigations:* Albuminuria.

Table 4 summarizes the laboratory abnormalities in DREAMM-2.

**Table 4. Laboratory Abnormalities (≥20%) Worsening from Baseline in Patients Who Received BLENREP in DREAMM-2**

Laboratory Abnormality	BLENREP N = 95	
	All Grades (%)	Grades 3-4 (%)
<b>Hematology</b>		
Platelets decreased	62	21
Lymphocytes decreased	49	22
Hemoglobin decreased	32	18
Neutrophils decreased	28	9
<b>Chemistry</b>		
Aspartate aminotransferase increased	57	2
Albumin decreased	43	4
Glucose increased	38	3
Creatinine increased	28	5
Alkaline phosphatase increased	26	1
Gamma-glutamyl transferase increased	25	5
Creatinine phosphokinase increased	22	1
Sodium decreased	21	2
Potassium decreased	20	2

## 6.2 Immunogenicity

As with all therapeutic proteins, there is potential for immunogenicity. The detection of antibody formation is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody (including neutralizing antibody) positivity in an assay may be influenced by several factors including assay methodology, sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, comparison of

the incidence of antibodies in the studies described below with the incidence of antibodies in other studies or to other products may be misleading.

The immunogenicity of BLENREP was evaluated using an electrochemiluminescence (ECL)-based immunoassay to test for anti-belantamab mafodotin antibodies. In clinical studies of BLENREP, 2/274 patients (<1%) tested positive for anti-belantamab mafodotin antibodies after treatment. One of the 2 patients tested positive for neutralizing anti-belantamab mafodotin antibodies following 4 weeks on therapy. Due to the limited number of patients with antibodies against belantamab mafodotin-blmf, no conclusions can be drawn concerning a potential effect of immunogenicity on pharmacokinetics, efficacy, or safety.

## **8 USE IN SPECIFIC POPULATIONS**

### **8.1 Pregnancy**

#### Risk Summary

Based on its mechanism of action, BLENREP can cause fetal harm when administered to a pregnant woman, because it contains a genotoxic compound (the microtubule inhibitor, MMAF) and it targets actively dividing cells [*see Clinical Pharmacology (12.1), Nonclinical Toxicology (13.1)*]. Human immunoglobulin G (IgG) is known to cross the placenta; therefore, belantamab mafodotin-blmf has the potential to be transmitted from the mother to the developing fetus. There are no available data on the use of BLENREP in pregnant women to evaluate for drug-associated risk. No animal reproduction studies were conducted with BLENREP. Advise pregnant women of the potential risk to a fetus.

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcome. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

#### Data

*Animal Data:* Animal reproductive or developmental toxicity studies were not conducted with belantamab mafodotin-blmf. The cytotoxic component of BLENREP, MMAF, disrupts microtubule function, is genotoxic, and can be toxic to rapidly dividing cells, suggesting it has the potential to cause embryotoxicity and teratogenicity.

### **8.2 Lactation**

#### Risk Summary

There is no data on the presence of belantamab mafodotin-blmf in human milk or the effects on the breastfed child or milk production. Because of the potential for serious adverse reactions in the breastfed child, advise women not to breastfeed during treatment with BLENREP and for 3 months after the last dose.

### **8.3 Females and Males of Reproductive Potential**

BLNREP can cause fetal harm when administered to pregnant women [see *Use in Specific Populations (8.1)*].

#### Pregnancy Testing

Pregnancy testing is recommended for females of reproductive potential prior to initiating BLNREP.

#### Contraception

*Females:* Advise women of reproductive potential to use effective contraception during treatment and for 4 months after the last dose.

*Males:* Because of the potential for genotoxicity, advise males with female partners of reproductive potential to use effective contraception during treatment with BLNREP and for 6 months after the last dose [see *Nonclinical Toxicology (13.1)*].

#### Infertility

Based on findings in animal studies, BLNREP may impair fertility in females and males. The effects were not reversible in male rats, but were reversible in female rats [see *Nonclinical Toxicology (13.1)*].

### **8.4 Pediatric Use**

The safety and effectiveness of BLNREP in pediatric patients have not been established.

### **8.5 Geriatric Use**

Of the 218 patients who received BLNREP in DREAMM-2, 43% were aged 65 to less than 75 years and 17% were aged 75 years and older. Clinical studies of BLNREP did not include sufficient numbers of patients aged 65 and older to determine whether the effectiveness differs compared with that of younger patients. Keratopathy occurred in 80% of patients aged less than 65 years and 73% of patients aged 65 years and older. Among the patients who received BLNREP at the 2.5-mg/kg dose in DREAMM-2 (n = 95), keratopathy occurred in 67% of patients aged less than 65 years and 73% of patients aged 65 years and older. Clinical studies did not include sufficient numbers of patients 75 years and older to determine whether they respond differently compared with younger patients.

### **8.6 Renal Impairment**

No dose adjustment is recommended for patients with mild or moderate renal impairment (estimated glomerular filtration rate [eGFR] 30 to 89 mL/min/1.73m<sup>2</sup> as estimated by the Modification of Diet in Renal Disease [MDRD] equation) [see *Clinical Pharmacology (12.3)*].

The recommended dosage has not been established in patients with severe renal impairment (eGFR 15 to 29 mL/min/1.73 m<sup>2</sup>) or end-stage renal disease (ESRD) with eGFR <15 mL/min/1.73 m<sup>2</sup> not on dialysis or requiring dialysis [see *Clinical Pharmacology* (12.3)].

## 8.7 Hepatic Impairment

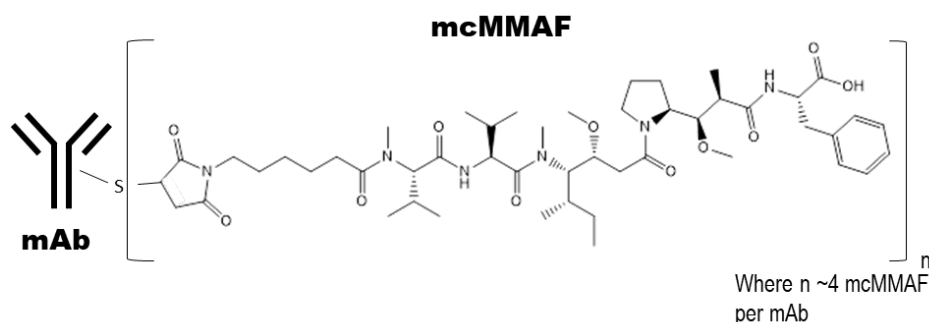
No dose adjustment is recommended for patients with mild hepatic impairment (total bilirubin ≤upper limit of normal [ULN] and aspartate aminotransferase (AST) >ULN or total bilirubin 1 to ≤1.5 × ULN and any AST).

The recommended dosage of BLENREP has not been established in patients with moderate or severe hepatic impairment (total bilirubin >1.5 × ULN and any AST) [see *Clinical Pharmacology* (12.3)].

## 11 DESCRIPTION

Belantamab mafodotin-blmf is a B-cell maturation antigen (BCMA)-directed antibody and microtubule inhibitor conjugate. Belantamab mafodotin-blmf is an antibody conjugate composed of 3 components: 1) afucosylated, humanized immunoglobulin G1 monoclonal antibody covalently linked to 2) the microtubule inhibitor MMAF via 3) a protease-resistant maleimidocaproyl linker.

The antibody is produced in a mammalian cell line (Chinese Hamster Ovary) using recombinant DNA technology and the microtubule inhibitor and linker are produced by chemical synthesis. Approximately 4 molecules of mafodotin are attached to each antibody molecule. The molecular weight of belantamab mafodotin-blmf is approximately 152 kDa. Belantamab mafodotin-blmf has the following structure:



BLENREP (belantamab mafodotin-blmf) for injection is a sterile, preservative-free, white to yellow, lyophilized powder in a single-dose vial for reconstitution and further dilution prior to intravenous use. BLENREP is supplied as 100 mg per vial and requires reconstitution with 2 mL of Sterile Water for Injection, USP, to obtain a concentration of 50 mg/mL. Each mL of reconstituted solution contains belantamab mafodotin-blmf (50 mg) and the inactive ingredients, citric acid (0.42 mg), disodium edetate dihydrate (0.019 mg), polysorbate 80 (0.2 mg), trehalose dihydrate (75.6 mg), and trisodium citrate dihydrate (6.7 mg). The pH of the reconstituted solution is 6.2.

## **12 CLINICAL PHARMACOLOGY**

### **12.1 Mechanism of Action**

Belantamab mafodotin-blmf is an antibody-drug conjugate (ADC). The antibody component is an afucosylated IgG1 directed against BCMA, a protein expressed on normal B lymphocytes and multiple myeloma cells. The small molecule component is MMAF, a microtubule inhibitor. Upon binding to BCMA, belantamab mafodotin-blmf is internalized followed by release of MMAF via proteolytic cleavage. The released MMAF intracellularly disrupts the microtubule network, leading to cell cycle arrest and apoptosis.

Belantamab mafodotin-blmf had antitumor activity in multiple myeloma cells and mediated killing of tumor cells through MMAF-induced apoptosis, as well as by tumor cell lysis through antibody-dependent cellular cytotoxicity (ADCC) and antibody-dependent cellular phagocytosis (ADCP).

### **12.2 Pharmacodynamics**

#### Exposure-Response Relationships

Higher belantamab mafodotin-blmf exposure was associated with higher incidence of some adverse reactions (e.g., Grade  $\geq 2$  corneal toxicity). No exposure-response relationship for efficacy was observed at doses of 2.5 mg/kg or 3.4 mg/kg (1.4 times the recommended dose) after accounting for the effect of baseline disease-related characteristics, such as soluble BCMA, IgG, and  $\beta_2$ -microglobulin.

#### Cardiac Electrophysiology

Belantamab mafodotin-blmf had no large QT<sub>c</sub> prolongation (>10 ms) at the recommended dosage of 2.5 mg/kg once every 3 weeks.

### **12.3 Pharmacokinetics**

Belantamab mafodotin-blmf exhibited dose-proportional pharmacokinetics, with a gradual decrease in clearance over time; the time to reach steady state was ~70 days. After a planned infusion duration of 0.5 hours, maximum belantamab mafodotin-blmf plasma concentrations occurred at or shortly after the end of the infusion. Accumulation of belantamab mafodotin-blmf was ~70% with a dosing regimen of every 3 weeks.

The pharmacokinetics of belantamab mafodotin-blmf after a dose of 2.5 mg/kg in Cycle 1 are shown in Table 5.

**Table 5. Belantamab Mafodotin-blmf Pharmacokinetics at Cycle 1 in Patients Who Received a Dose of 2.5 mg/kg**

Parameter	Belantamab Mafodotin-blmf	
	n	Value
AUC (mcg.h/mL)	30	4,666 (46)
C <sub>max</sub> (mcg/mL)	32	42 (26)
t <sub>max</sub> (h)	32	0.78 (0.4, 2.5)
C <sub>trough</sub> (mcg/mL)	69	2.4 (52)

AUC = Area under curve over the dosing interval; C<sub>max</sub> = Maximum observed plasma concentration; t<sub>max</sub> = Time of C<sub>max</sub>; C<sub>trough</sub> = Observed plasma concentration prior to next dose. Data presented as geometric mean (%CV), except t<sub>max</sub>, which is presented as median (minimum, maximum).

#### Distribution

The mean steady-state volume of distribution of belantamab mafodotin-blmf was 11 L (15%).

#### Elimination

Total plasma clearance (mean [CV%]) of belantamab mafodotin-blmf was approximately 22% lower at steady state (0.7 L/day [50%]) than after the first dose (0.9 L/day [42%]). The terminal phase half-life of belantamab mafodotin-blmf was 12 days after the first dose and 14 days at steady state.

*Metabolism:* The monoclonal antibody portion of belantamab mafodotin-blmf is expected to be metabolized into small peptides and individual amino acids by catabolic pathways. In vitro, cys-mcMMAF is mainly hydrolyzed and dehydrated to a cyclized isomeric form of cys-mcMMAF.

#### Specific Populations

No clinically significant differences in the pharmacokinetics of belantamab mafodotin-blmf were observed based on age (34 to 89 years), sex, race (White vs. Black), body weight (42 to 130 kg), mild or moderate renal impairment (eGFR 30 to 89 mL/min/1.73m<sup>2</sup>), or mild hepatic impairment (total bilirubin ≤ULN and AST >ULN or total bilirubin 1 to ≤1.5 x ULN and any AST).

The effects of severe renal impairment (eGFR 15 to 29 mL/min/1.73 m<sup>2</sup>) or ESRD with eGFR <15 mL/min/1.73 m<sup>2</sup> not on dialysis or requiring dialysis, or moderate to severe hepatic impairment (total bilirubin >1.5 x ULN and any AST) on the pharmacokinetics of belantamab mafodotin-blmf are unknown.

#### Drug Interaction Studies

*In Vitro Studies: Transporter Systems:* Cys-mcMMAF is a substrate of organic anion transporting polypeptide (OATP)1B1 and OATP1B3, multidrug resistance-associated protein (MRP)1, MRP2, MRP3, bile salt export pump (BSEP), and a possible substrate of P-glycoprotein (P-gp).



## **13 NONCLINICAL TOXICOLOGY**

### **13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility**

Carcinogenicity studies have not been conducted with belantamab mafodotin-blmf.

Belantamab mafodotin-blmf was genotoxic in an in vitro micronucleus assay in human lymphocytes through an aneugenic mechanism. These results are consistent with the pharmacological effect of MMAF binding to tubulin causing microtubule depolymerization resulting in spindle disorganization during cell division. Cys-mcMMAF was not mutagenic in the bacterial reverse mutation assay (Ames test), the L5178Y mouse lymphoma forward mutation assay, or the in vivo rat bone marrow micronucleus assay.

Fertility studies have not been conducted with belantamab mafodotin-blmf. Results of repeat-dose toxicity studies with intravenous administration of belantamab mafodotin-blmf in rats indicate the potential for impaired male and female reproductive function and fertility. In rats, weekly dosing for 3 weeks at doses  $\geq 10$  mg/kg (approximately 4 times the exposure at the maximum recommended human dose [MRHD] of 2.5 mg/kg based on the AUC of belantamab mafodotin-blmf) resulted in degeneration and atrophy of seminiferous tubules in the testes and luteinized nonovulatory follicles in the ovaries. Findings in females were reversible; findings in the testes were not reversible at the end of the 12-week recovery period with weekly dosing or when given every 3 weeks for 13 weeks at doses  $\geq 10$  mg/kg. In male monkeys, the highest dose tested of 10 mg/kg (approximately 4 times the exposure at the MRHD based on AUC of belantamab mafodotin-blmf) given weekly for 13 weeks resulted in seminiferous tubules degeneration in the testes that was fully reversed following the 12-week recovery period.

### **13.2 Animal Toxicology and/or Pharmacology**

Increased mitoses of corneal epithelial cells with bilateral single-cell necrosis were observed following intravenous administration of belantamab mafodotin-blmf in rats and rabbits.

## **14 CLINICAL STUDIES**

### **14.1 Relapsed or Refractory Multiple Myeloma**

The efficacy of BLENREP was evaluated in DREAMM-2, an open-label, multicenter study (NCT 03525678). Eligible patients had relapsed or refractory multiple myeloma, had previously received 3 or more prior therapies, including an anti-CD38 monoclonal antibody, and were refractory to an immunomodulatory agent and a proteasome inhibitor. Patients had measurable disease by International Myeloma Working Group (IMWG) criteria. Patients with corneal epithelial disease, except mild punctate keratopathy, at baseline were excluded from the study. Patients with mild or moderate renal impairment (eGFR 30 to 89 mL/min/1.73m<sup>2</sup>) at baseline were also eligible for the study. Patients received either BLENREP 2.5 mg/kg or 3.4 mg/kg intravenously once every 3 weeks until disease progression or unacceptable toxicity. The major efficacy outcome measure was overall response rate as evaluated by an Independent Review

Committee (IRC) based on the IMWG Uniform Response Criteria for Multiple Myeloma. Only the results of the recommended dosage of 2.5 mg/kg are described below.

A total of 97 patients received BLENREP at a dose of 2.5 mg/kg administered intravenously once every 3 weeks. The median age was 65 years (range: 39 to 85 years), 53% were male, 74% were White, and 16% were Black. Most patients (77%) were International Staging System (ISS) Stage II or III, 87% had received prior autologous stem cell transplantation (ASCT), and 16% had an Eastern Cooperative Oncology Group (ECOG) performance status of 2. High-risk cytogenetic factors (presence of t[4;14], t[14;16] and 17p13del) were present in 27% of patients. The median number of prior lines of therapy was 7 (range: 3 to 21).

Efficacy results are summarized in Table 6. The median time to first response was 1.4 months (95% CI: 1.0, 1.6). Seventy-three percent of responders had a duration of response  $\geq$ 6 months.

**Table 6. Efficacy in DREAMM-2**

	<b>BLENREP N = 97</b>
Overall response rate (ORR), n (%) (97.5% CI)	30 (31%) (21%, 43%)
Stringent complete response (sCR), n (%)	2 (2%)
Complete response (CR), n (%)	1 (1%)
Very good partial response (VGPR), n (%)	15 (15%)
Partial response (PR), n (%)	12 (12%)
Median duration of response in months <sup>a</sup> (range)	NR [NR to NR]

<sup>a</sup> NR = Not reached.

## 15 REFERENCES

1. “OSHA Hazardous Drugs.” *OSHA*. <http://www.osha.gov/SLTC/hazardousdrugs/index.html>.

## 16 HOW SUPPLIED/STORAGE AND HANDLING

BLENREP (belantamab mafodotin-blmf) for injection is a sterile, preservative-free, white to yellow lyophilized powder for reconstitution and further dilution prior to intravenous use.

BLENREP is supplied in a carton containing one 100-mg single-dose vial with a rubber stopper (not made with natural rubber latex) and aluminum overseal with removable cap (NDC 0173-0896-01).

Store vials refrigerated at 36°F to 46°F (2°C to 8°C).

BLENREP is a hazardous drug. Follow applicable special handling and disposal procedures.<sup>1</sup>

## 17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide).

### Ocular Toxicity

- Advise patients that ocular toxicity may occur during treatment with BLENREP [see *Warnings and Precautions (5.1)*].
- Advise patients to administer preservative-free lubricant eye drops as recommended during treatment and to avoid wearing contact lenses during treatment unless directed by a healthcare professional [see *Dosage and Administration (2.3)*, *Warnings and Precautions (5.1)*].
- Advise patients to use caution when driving or operating machinery as BLENREP may adversely affect their vision [see *Warnings and Precautions (5.1)*].

### BLENREP REMS

BLENREP is available only through a restricted program called BLENREP REMS [see *Warnings and Precautions (5.2)*]. Inform the patient of the following notable requirements:

- Patients must complete the enrollment form with their provider.
- Patients must comply with ongoing monitoring for eye exams [see *Warnings and Precautions (5.1)*].

### Thrombocytopenia

- Advise patients to inform their healthcare provider if they develop signs or symptoms of bleeding [see *Warnings and Precautions (5.3)*].

### Infusion-Related Reactions

- Advise patients to immediately report any signs and symptoms of infusion-related reactions to their healthcare provider [see *Warnings and Precautions (5.4)*].

### Embryo-Fetal Toxicity

- Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to inform their healthcare provider of a known or suspected pregnancy [see *Warnings and Precautions (5.5)*, *Use in Specific Populations (8.1, 8.3)*].
- Advise women of reproductive potential to use highly effective contraception during treatment and for 4 months after the last dose [see *Warnings and Precautions (5.5)*, *Use in Specific Populations (8.3)*].
- Advise males with female partners of reproductive potential to use effective contraception during treatment with BLENREP and for 6 months after the last dose [see *Use in Specific Populations (8.3)*, *Nonclinical Toxicology (13.1)*].

### Lactation

- Advise women not to breastfeed during treatment with BLENREP and for 3 months after the last dose [see *Use in Specific Populations (8.2)*].

Infertility

- Advise males and females of reproductive potential that BLENREP may impair fertility [*see Use in Specific Populations (8.3)*].

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BRP:1PI

**MEDICATION GUIDE**  
**BLNREP (BLN-REP)**  
**(belantamab mafodotin-blmf)**  
**for injection, for intravenous use**

**What is the most important information I should know about BLNREP?**

Before you receive BLNREP, you must read and agree to all of the instructions in the BLNREP REMS. Before prescribing BLNREP, your healthcare provider will explain the BLNREP REMS to you and have you sign the Patient Enrollment Form.

BLNREP can cause serious side effects, including:

**Eye problems.** Eye problems are common with BLNREP. BLNREP can cause changes to the surface of your eye that can lead to dry eyes, blurred vision, worsening vision, severe vision loss, and corneal ulcer. Tell your healthcare provider if you have any vision changes or eye problems during treatment with BLNREP.

- Your healthcare provider will send you to an eye specialist to check your eyes before you start treatment with BLNREP, prior to each dose of BLNREP, and for worsening symptoms of eye problems.
- Even if your vision seems fine, it is important that you get your eyes checked during treatment with BLNREP because some changes can happen without symptoms and may only be seen on an eye exam.
- You should use preservative-free lubricant eye drops at least 4 times per day during treatment with BLNREP as instructed by your healthcare provider.
- You should use caution when driving or operating machinery as BLNREP may affect your vision.
- Avoid wearing contact lenses during treatment with BLNREP unless directed by your eye specialist.

**See “What are the possible side effects of BLNREP?” for more information about serious side effects.**

**What is BLNREP?**

BLNREP is a prescription medicine used to treat adults with multiple myeloma who:

- have received at least 4 prior medicines to treat multiple myeloma, **and**
- their cancer has come back or did not respond to prior treatment.

It is not known if BLNREP is safe and effective in children.

**Before receiving BLNREP, tell your healthcare provider about all of your medical conditions, including if you:**

- have a history of vision or eye problems.
- have bleeding problems or a history of bleeding problems.
- are pregnant or plan to become pregnant. BLNREP can harm your unborn baby.

**Females who are able to become pregnant:**

- Your healthcare provider may do a pregnancy test before you start treatment with BLNREP.

- You should use effective birth control during treatment with BLENREP and for 4 months after the last dose. Talk to your healthcare provider about birth control methods you can use during this time.
- Tell your healthcare provider if you become pregnant or think you may be pregnant during treatment with BLENREP.

**Males with female partners who are able to become pregnant** should use effective birth control during treatment with BLENREP and for 6 months after the last dose.

- are breastfeeding or plan to breastfeed. It is not known if BLENREP passes into your breast milk. Do not breastfeed during treatment with BLENREP and for 3 months after the last dose.
- BLENREP may affect fertility in males and females. Talk to your healthcare provider if this is a concern for you.

**Tell your healthcare provider about all the medicines you take**, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

**How will I receive BLENREP?**

- BLENREP will be given to you by your healthcare provider by intravenous infusion into your vein over approximately 30 minutes.
- BLENREP is usually given every 3 weeks.
- Your healthcare provider will decide how many treatments you need.
- Your healthcare provider may decrease your dose, temporarily stop or completely stop treatment with BLENREP if you have serious side effects.
- If you miss any appointments, call your healthcare provider as soon as possible to reschedule your appointment.

**What are the possible side effects of BLENREP?**

**BLENREP can cause serious side effects, including:**

- **See Eye Problems in “What is the most important information I should know about BLENREP?”**
- **Decrease in platelets (thrombocytopenia)** is common with BLENREP, and can also be serious. Platelets are a type of blood cell that help your blood to clot. Your healthcare provider will check your blood cell counts before you start treatment with BLENREP and during treatment. Tell your healthcare provider if you have bleeding or bruising during treatment with BLENREP.
- **Infusion reactions** are common with BLENREP, and can also be serious. Tell your healthcare provider or nurse right away if you get any of the following signs or symptoms of an infusion reaction while receiving BLENREP:
 

○ chills or shaking	○ dizziness
○ redness of your face (flushing)	○ feel like passing out
○ itching or rash	○ tiredness
○ shortness of breath, cough, or wheezing	○ fever
○ swelling of your lips, tongue, throat, or face	○ feel like your heart is racing (palpitations)

- **The most common side effects of BLENREP include** vision or eye changes such as findings on eye exam (keratopathy), decreased vision or blurred vision, nausea, low blood cell counts, fever, infusion-related reactions, tiredness, and changes in kidney or liver function blood tests.

These are not all the possible side effects of BLENREP.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

### **General information about the safe and effective use of BLENREP.**

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. You can ask your pharmacist or healthcare provider for information about BLENREP that is written for health professionals.

### **What are the ingredients in BLENREP?**

**Active Ingredient:** belantamab mafodotin-blmf

**Inactive Ingredients:** citric acid, disodium edetate dihydrate, polysorbate 80, trehalose dihydrate, trisodium citrate dihydrate.

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