

HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use DAPTOMYCIN FOR INJECTION safely and effectively. See full prescribing information for DAPTOMYCIN FOR INJECTION, Daptomycin for Injection, for intravenous use.
Initial U.S. Approval: 2003

RECENT MAJOR CHANGES
Warnings and Precautions, Development of Drug-Resistant Bacteria (5.12)
INDICATIONS AND USAGE
Daptomycin for injection is a lipopeptide antibacterial indicated for the treatment of:

- Complicated skin and skin structure infections (cSSSI) in adult and pediatric patients (1 to 17 years of age) (1, 1 and), and
- *Staphylococcus aureus* bloodstream infections (bacteremia), in adult patients including those with right-sided infective endocarditis, (1.2)
- *Staphylococcus aureus* bloodstream infections (bacteremia) in pediatric patients (1 to 17 years of age) (1.3)

Limitations of Use

- Daptomycin for injection is not indicated for the treatment of pneumonia (1.4)
- Daptomycin for injection is not recommended in pediatric patients younger than one year of age due to the risk of potential effects on muscular, neuromuscular, and/or nervous systems (either peripheral and/or central) observed in neonatal dogs (1.4)
- To reduce the development of drug-resistant bacteria and maintain the effectiveness of daptomycin for injection and other antibacterial drugs, daptomycin for injection should be used to treat or prevent infections that are proven or strongly suspected to be caused by bacteria. (1.5)

DOSE AND ADMINISTRATION

- Administer to adult patients intravenously in 0.9% sodium chloride, either by injection over a 2-minute period or by infusion over a 30-minute period. (2.1, 2.2)
- Recommended dosage regimen for adult patients (2.2, 2.4, 2.6)

Creatinine Clearance (CL _{CR})	Dosage Regimen	
	cSSSI	<i>S. aureus</i> Bacteremia
≥30 mL/min	4 mg/kg once every 24 hours	6 mg/kg once every 24 hours
≥30 mL/min, including hemodialysis and CAPD	4 mg/kg once every 48 hours*	6 mg/kg once every 48 hours*

- Administered following hemodialysis on hemodialysis days.
- **Unlike in adults, do NOT administer by injection over a two (2) minute period to pediatric patients.** (2.1, 2.7)
- Administer to pediatric patients intravenously in 0.9% sodium chloride by infusion over a 30- or 60-minute period, based on age. (2.1, 2.7)
- Recommended dosage regimen for pediatric patients (1 to 17 years of age) with cSSSI, based on age (2.3)

Age group	Dosage*	Duration of therapy
12 to 17 years	5 mg/kg once every 24 hours infused over 30 minutes	Up to 14 days
7 to 11 years	7 mg/kg once every 24 hours infused over 30 minutes	
2 to 6 years	9 mg/kg once every 24 hours infused over 30 minutes	
1 to less than 2 years	10 mg/kg once every 24 hours infused over 60 minutes	
1 to less than 2 years	10 mg/kg once every 24 hours infused over 60 minutes	

- *Recommended dosage is for pediatric patients (1 to 17 years of age) with normal renal function. Dosage adjustment for pediatric patients with renal impairment has not been established.
- *Recommended dosage regimen for pediatric patients (1 to 17 years of age) with *S. aureus* bacteremia, based on age (2.5)

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FULL PRESCRIBING INFORMATION

- 1.1 Complicated Skin and Skin Structure Infections (cSSSI)
Daptomycin for injection is indicated for the treatment of adult and pediatric patients (1 to 17 years of age) with complicated skin and skin structure infections (cSSSI) caused by susceptible isolates of the following Gram-positive bacteria: *Staphylococcus aureus* (methicillin-resistant isolates), *Streptococcus pyogenes*, *Streptococcus agalactiae*, *Streptococcus dysgalactiae* subspecies *equisimilis*, and *Enterococcus faecalis* (vancomycin-susceptible isolates only).

- 1.2 *Staphylococcus aureus* Bloodstream Infections (Bacteremia) in Adult Patients, including Those with Right-Sided Infective Endocarditis, Caused by Methicillin-Susceptible and Methicillin-Resistant Isolates
Daptomycin for injection is indicated for the treatment of adult patients with *Staphylococcus aureus* bloodstream infections (bacteremia), including adult patients with right-sided infective endocarditis, caused by methicillin-susceptible and methicillin-resistant isolates.

- 1.3 *Staphylococcus aureus* Bloodstream Infections (Bacteremia) in Pediatric Patients (1 to 17 Years of Age)
Daptomycin for injection is indicated for the treatment of pediatric patients (1 to 17 years of age) with *Staphylococcus aureus* bloodstream infections (bacteremia).

- 1.4 Limitations of Use
Daptomycin for injection is not indicated for the treatment of pneumonia.

- 1.5 Usage
Appropriate specimens for microbiological examination should be obtained in order to isolate and identify the causative pathogens and to determine their susceptibility to daptomycin.

DOSE AND ADMINISTRATION

- 2.1 Important Administration Duration Instructions
Administer daptomycin over a two (2) minute period by intravenous injection over a thirty (30) minute period. [see *Dosage and Administration* (2.2, 2.4, 2.7)]

- 2.2 Dosage in Adults for cSSSI
Administer daptomycin for injection 4 mg/kg to adult patients intravenously in 0.9% sodium chloride injection once every 24 hours for 7 to 14 days.

- 2.3 Dosage in Pediatric Patients (1 to 17 Years of Age) for cSSSI
The recommended dosage regimen based on age for pediatric patients with cSSSI are shown in Table 1.

Table 1: Recommended Dosage of Daptomycin for Injection in Pediatric Patients (1 to 17 Years of Age) with cSSSI, Based on Age

Age Range	Dosage Regimen*	Duration of therapy
12 to 17 years	5 mg/kg once every 24 hours infused over 30 minutes	Up to 14 days
7 to 11 years	7 mg/kg once every 24 hours infused over 30 minutes	
2 to 6 years	9 mg/kg once every 24 hours infused over 60 minutes	
1 to less than 2 years	10 mg/kg once every 24 hours infused over 60 minutes	
1 to less than 2 years	10 mg/kg once every 24 hours infused over 60 minutes	

- 2.4 Dosage in Adult Patients with *Staphylococcus aureus* Bloodstream Infections (Bacteremia), including Those with Right-Sided Infective Endocarditis, Caused by Methicillin-Susceptible and Methicillin-Resistant Isolates
Administer daptomycin for injection 6 mg/kg to adult patients intravenously in 0.9% sodium chloride injection once every 24 hours for 2 to 6 weeks. There are limited safety data for the use of daptomycin for injection for more than 28 days of therapy. In the Phase 3 trial, there were a total of 14 adult patients who were treated with daptomycin for injection for more than 28 days.

- 2.5 Dosage in Pediatric Patients (1 to 17 Years of Age) with *Staphylococcus aureus* Bloodstream Infections (Bacteremia)
The recommended dosage regimen based on age for pediatric patients with *S. aureus* bloodstream infections (bacteremia) are shown in Table 2.

Table 2: Recommended Dosage of Daptomycin for Injection in Pediatric Patients (1 to 17 Years of Age) with *S. aureus* Bacteremia, Based on Age

Age group	Dosage*	Duration of therapy
12 to 17 years	7 mg/kg once every 24 hours infused over 30 minutes	Up to 42 days
7 to 11 years	9 mg/kg once every 24 hours infused over 30 minutes	
1 to 6 years	12 mg/kg once every 24 hours infused over 60 minutes	
1 to less than 2 years	10 mg/kg once every 24 hours infused over 60 minutes	
1 to less than 2 years	10 mg/kg once every 24 hours infused over 60 minutes	

- 2.6 Dosage in Patients with Renal Impairment
No dosage adjustment is required in adult patients with creatinine clearance (CL_{CR}) greater than or equal to 30 mL/min. The recommended dosage regimen for daptomycin for injection in adult patients with CL_{CR} less than 30 mL/min, including adult patients on hemodialysis or continuous ambulatory peritoneal dialysis (CAPD), is 4 mg/kg (cSSSI) or 6 mg/kg (*S. aureus* bloodstream infections) once every 48 hours (see Table 3). When possible, daptomycin for injection should be administered following the completion of hemodialysis, on hemodialysis days (see *Warnings and Precautions* (5.2, 5.10), *Use in Specific Populations* (8.6), and *Clinical Pharmacology* (12.3)).

Table 3: Recommended Dosage of Daptomycin for Injection in Adult Patients

Creatinine Clearance (CL _{CR})	Dosage Regimen in Adults	
	cSSSI	<i>S. aureus</i> Bloodstream Infections
Greater than or equal to 30 mL/min	4 mg/kg once every 24 hours	6 mg/kg once every 24 hours
Less than 30 mL/min, including hemodialysis and CAPD	4 mg/kg once every 48 hours*	6 mg/kg once every 48 hours*

- *When possible, administer daptomycin for injection following the completion of hemodialysis, on hemodialysis days.
- Pediatric Patients:
The dosage regimen for daptomycin for injection in pediatric patients with renal impairment has not been established.
- 2.7 Preparation and Administration of Daptomycin for Injection

Age group	Dosage*	Duration of therapy
12 to 17 years	7 mg/kg once every 24 hours infused over 30 minutes	Up to 42 days
7 to 11 years	9 mg/kg once every 24 hours infused over 30 minutes	
1 to 6 years	12 mg/kg once every 24 hours infused over 60 minutes	
1 to less than 2 years	10 mg/kg once every 24 hours infused over 60 minutes	
1 to less than 2 years	10 mg/kg once every 24 hours infused over 60 minutes	

- *Recommended dosage is for pediatric patients (1 to 17 years of age) with normal renal function. Dosage adjustment for pediatric patients with renal impairment has not been established.
- There are two formulations of daptomycin that have differences concerning storage and reconstitution. Carefully follow the reconstitution and storage procedures in labeling. (2.7)
- Do not use in conjunction with ReadyMED[®] elastomeric infusion pumps in adult and pediatric patients. (2.9)

DOSE FORMS AND STRENGTHS

For Injection: 500 mg lyophilized powder for reconstitution in a single-use vial (3)

CONTRAINDICATIONS

- Known hypersensitivity to daptomycin (4)

WARNINGS AND PRECAUTIONS

- Anaphylaxis/hypersensitivity reactions (including life-threatening) Discontinue daptomycin for injection and treat signs/symptoms. (5.1)
- Myopathy and rhabdomyolysis: Monitor CPK levels and follow muscle pain/weakness; if elevated CPK or myopathy occur, consider discontinuation of daptomycin for injection. (5.2)
- Eosinophilic pneumonia: Discontinue daptomycin for injection and consider treatment with systemic steroids. (5.3)
- Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS): Discontinue daptomycin for injection and institute appropriate treatment. (5.4)
- Tubulointerstitial Nephritis (TIN): Discontinue daptomycin for injection and institute appropriate treatment. (5.5)
- Peripheral Neuropathy: Monitor for neuropathy and consider discontinuation. (5.6)
- Potential nervous system and/or muscular system effects in pediatric patients younger than 12 months: Avoid use of daptomycin for injection in this age group. (5.7)
- Clostridioides difficile-associated diarrhea: Evaluate patients if diarrhea occurs. (5.8)
- Persisting or relapsing *S. aureus* bacteremia/endocarditis: Perform susceptibility testing and rule out sequestered foci of infection. (5.9)
- Decreased efficacy was observed in adult patients with moderate baseline renal impairment. (5.10)

ADVERSE REACTIONS

- Adult cSSSI Patients: The most common adverse reactions that occurred in ≥2% of adult cSSSI patients receiving daptomycin for injection 4 mg/kg were diarrhea, headache, dizziness, rash, and nausea. Adverse reactions included: abdominal pain, pruritus, elevated CPK, urinary tract infections, hypotension, and dyspnea. (6.1)
- Pediatric cSSSI Patients: The most common adverse reactions that occurred in ≥2% of pediatric patients receiving daptomycin for injection 5 mg/kg were diarrhea, vomiting, abdominal pain, pruritus, pyrexia, elevated CPK, and headache. (6.1)
- Adult *S. aureus* bacteremia/endocarditis Patients: The most common adverse reactions that occurred in ≥5% of *S. aureus* bacteremia/endocarditis patients receiving daptomycin for injection 6 mg/kg were sepsis, bacteremia, abdominal pain, chest pain, edema, pharyngolaryngeal pain, pruritus, increased sweating, insomnia, elevated CPK, and hypotension. (6.1)
- Pediatric *S. aureus* bacteremia/endocarditis Patients: The most common adverse reactions that occurred in ≥5% of pediatric patients receiving daptomycin for injection 7 mg/kg were vomiting and elevated CPK. (6.1)

REPORT SUSPECTED ADVERSE REACTIONS, contact Apotex Corp. at 1-800-766-5575 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 03/2022

- 5.8 Clostridioides difficile-Associated Diarrhea
- 5.9 Persisting or Relapsing *S. aureus* Bacteremia/Endocarditis
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*Sections or subsections omitted from the full prescribing information are not listed.

There are other formulations of daptomycin that have differences concerning reconstitution and storage. Carefully follow the reconstitution and storage procedures described in this labeling.

Reconstitution of Daptomycin for Injection Vial

- 1. Daptomycin for injection is supplied in single-dose vials, each containing 500 mg daptomycin as a sterile, lyophilized powder. The contents of 1 daptomycin for injection vial should be reconstituted with 0.9% sodium chloride injection, using aseptic technique, to 50 mg/mL, as follows:
 1. To minimize foaming, AVOID vigorous agitation or shaking of the vial during or after reconstitution.
 2. Remove the polypropylene flip-off cap from the daptomycin for injection vial to expose the central portion of the rubber stopper.
 3. Wipe the top of the rubber stopper with an alcohol swab or other antiseptic solution and allow to dry. After cleaning, do not touch the rubber stopper or the vial to touch any other surface.
 4. Slowly transfer 10 mL of 0.9% sodium chloride injection through the center of the rubber stopper into the daptomycin for injection vial, pointing the transfer needle toward the wall of the vial. It is recommended that a beveled sterile transfer needle that is 21 gauge or smaller in diameter, or a needleless device is used, pointing the transfer needle toward the wall of the vial.
 5. Ensure that all of the daptomycin for injection powder is wetted by gently rotating the vial.
 1. Allow the wetted product to stand undisturbed for 10 minutes.
 2. Gently rotate or swirl the vial contents for a few minutes, as needed, to obtain a completely reconstituted solution.

Administration Instructions

- Parenteral drugs should be inspected visually for particulate matter prior to administration. Slowly remove reconstituted liquid (50 mg daptomycin/mL) from the vial using a beveled sterile needle that is 21 gauge or smaller in diameter. Administer as an intravenous injection or infusion as described below:

Adults

Intravenous Injection over a period of 2 minutes

- For intravenous (IV) injection over a period of 2 minutes in adult patients only: Administer the appropriate volume of the reconstituted daptomycin for injection (concentration of 50 mg/mL).

Intravenous Infusion over a period of 30 minutes

- For IV infusion over a period of 30 minutes in adult patients: The appropriate volume of the reconstituted daptomycin for injection (concentration of 50 mg/mL) should be further diluted, using aseptic technique, into a 50 mL IV infusion bag containing 0.9% sodium chloride injection.

Pediatric Patients (1 to 17 Years of Age)

Intravenous Infusion over a period of 30 to 60 minutes

Unlike in Adults, do NOT administer daptomycin for injection by injection over a two (2) minute period to pediatric patients [see Dosage and Administration (2.1)].

- For intravenous infusion over a period of 60 minutes in pediatric patients 1 to 6 years of age: The appropriate volume of the reconstituted daptomycin for injection (concentration of 50 mg/mL) should be further diluted, using aseptic technique, into an intravenous infusion bag containing 25 mL of 0.9% sodium chloride injection. The infusion rate should be maintained at 0.42 mL/minute over the 60-minute period.
- For intravenous infusion over a period of 30 minutes in pediatric patients 7 to 17 years of age: The appropriate volume of the reconstituted daptomycin for injection (concentration of 50 mg/mL) should be further diluted, using aseptic technique, into a 50 mL IV infusion bag containing 0.9% sodium chloride injection. The infusion rate should be maintained at 1.67 mL/minute over the 30-minute period.

Do not use the vial if the daptomycin for injection powder is not fully wetted in the preparation of final IV solution. Do not exceed the In-Use storage conditions of the reconstituted and diluted solutions of daptomycin for injection described below. Discard unused portions of daptomycin for injection.

In-Use Storage Conditions for Daptomycin for Injection Once Reconstituted in Acceptable Intravenous Diluents

Parenteral drug products should be inspected visually to ensure the reconstituted solution is stable in the vial for 12 hours at room temperature and up to 48 hours if stored under refrigeration at 2°C to 8°C (36 to 46°F).

The diluted solution is stable in the infusion bag for 12 hours at room temperature and 48 hours if stored under refrigeration. The combined storage time (reconstituted solution in vial and diluted solution in infusion bag) should not exceed 12 hours at room temperature or 48 hours under refrigeration.

2.8 Compatible Intravenous Solution for Reconstitution and Dilution

Daptomycin for injection is compatible with 0.9% sodium chloride injection for reconstitution.

Reconstituted Daptomycin for injection can only be diluted with 0.9% sodium chloride injection.

2.9 Incompatibilities

Daptomycin for injection is not compatible with dextrose-containing diluents. Daptomycin for injection should not be used in conjunction with ReadyMED[®] elastomeric infusion pumps. Stability studies of daptomycin for injection solutions stored in ReadyMED[®] elastomeric infusion pumps identified an impurity (2-mercaptobenzothiazole) leaching from this pump system into the daptomycin for injection solution.

Because only limited data are available on the compatibility of daptomycin for injection with other IV substances, additives and other medications should not be added to daptomycin for injection single-dose vials or infusion bags, or infused simultaneously with daptomycin for injection through the same IV line. If the same IV line is used for sequential infusion of different drugs, the line should be flushed with 0.9% sodium chloride injection.

DOSE FORMS AND STRENGTHS

For Injection: 500 mg daptomycin as a sterile, pale yellow to light brown lyophilized powder for reconstitution in a single-dose vial.

4 CONTRAINDICATIONS

Daptomycin for injection is contraindicated in patients with known hypersensitivity to daptomycin [see *Warnings and Precautions* (5.1)].

5 WARNINGS AND PRECAUTIONS

5.1 Anaphylaxis/Hypersensitivity Reactions

Anaphylaxis/hypersensitivity reactions have been reported with the use of antibacterial agents, including daptomycin for injection, and may be life-threatening. If an allergic reaction to daptomycin for injection occurs, discontinue the drug and institute appropriate therapy [see *Adverse Reactions* (6.2)].

5.2 Myopathy and Rhabdomyolysis

Myopathy, defined as muscle aching or muscle weakness in conjunction with increases in creatine phosphokinase (CPK) values to greater than 10 times the upper limit of normal (ULN), has been reported with the use of daptomycin for injection. Rhabdomyolysis, with or without acute renal failure, has also been reported [see *Adverse Reactions* (6.2)].

Patients receiving daptomycin for injection should be monitored for the development of muscle pain or weakness, particularly of the distal extremities. In patients who receive daptomycin for injection, CPK levels should be monitored weekly, and more frequently in patients who received recent prior or concomitant therapy with an HMG-CoA reductase inhibitor or in whom elevations in CPK occur during treatment with daptomycin for injection.

In adult patients with renal impairment, both renal function and CPK should be monitored more frequently than once weekly [see *Use in Specific Populations* (8.6) and *Clinical Pharmacology* (12.3)].

In Phase 1 studies and Phase 2 clinical trials in adults, CPK elevations appeared to be more frequent when daptomycin for injection was dosed every 24 hours than when daptomycin for injection was dosed every 48 hours.

Daptomycin for injection should be discontinued in patients with unexplained signs and symptoms of myopathy in conjunction with CPK elevations to levels >1,000 ULN (~5x ULN), and in patients without reported symptoms who have marked elevations in CPK, with levels >2,000 ULN (≥10x ULN).

In addition, consideration should be given to suspending agents associated with rhabdomyolysis, such as HMG-CoA reductase inhibitors, temporarily in patients receiving daptomycin for injection [see *Drug Interactions* (7.1)].

5.3 Eosinophilic Pneumonia

Eosinophilic pneumonia has been reported in patients receiving daptomycin for injection [see *Adverse Reactions* (6.2)]. In reported cases associated with daptomycin for injection, patients developed fever, dyspnea with hypoxic respiratory insufficiency, and diffuse pulmonary infiltrates or organizing pneumonia. In general, patients developed eosinophilic pneumonia 2 to 4 weeks after starting daptomycin for injection and improved when daptomycin for injection was discontinued and steroid therapy was initiated. Recurrence of eosinophilic pneumonia upon re-exposure has been reported. Patients who develop these signs and symptoms while receiving daptomycin for injection should undergo prompt medical evaluation, and discontinue the injection should be discontinued immediately. Treatment with systemic steroids is recommended.

5.4 Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)

DRESS has been reported in post-marketing experience with daptomycin for injection [see *Adverse Reactions* (6.2)]. Patients who develop skin rash, fever, peripheral eosinophilia, and systemic organ (for example, hepatic, renal, pulmonary) impairment while receiving daptomycin for injection should undergo medical evaluation. If DRESS is suspected, discontinue daptomycin for injection promptly and institute appropriate treatment.

5.5 Tubulointerstitial Nephritis (TIN)

TIN has been reported in post-marketing experience with daptomycin for injection [see *Adverse Reactions* (6.2)]. Patients who develop new or worsening renal impairment while receiving daptomycin for injection should undergo medical evaluation. If TIN is suspected, discontinue daptomycin for injection promptly and institute appropriate treatment.

5.6 Peripheral Neuropathy

Cases of peripheral neuropathy have been reported during the daptomycin for injection postmarketing experience [see *Adverse Reactions* (6.2)]. Therefore, physicians should be alert to signs and symptoms of peripheral neuropathy in patients receiving daptomycin for injection. Discontinue daptomycin for injection if peripheral neuropathy is suspected.

5.7 Potential Nervous System and/or Muscular System Effects in Pediatric Patients Younger than 12 Months

Avoid use of daptomycin for injection in pediatric patients younger than 12 months due to the risk of potential effects on muscular, neuromuscular, and/or nervous systems (either peripheral and/or central) observed in neonatal dogs with intravenous daptomycin [see *Nonclinical Toxicology* (13.2)].

5.8 Clostridioides difficile-Associated Diarrhea

Clostridioides difficile-associated diarrhea (CDAD) has been reported with the use of nearly all systemic antibacterial agents, including daptomycin for injection, and may range in severity from mild diarrhea to fatal colitis [see *Adverse Reactions* (6.2)]. Treatment with antibacterial agents alters the normal flora of the colon and may predispose to the development of CDAD. Hypertoxin-producing strains of *C. difficile* cause increased morbidity and mortality, since these infections can be refractory to antimicrobial therapy and may require colectomy. CDAD has been considered in all patients who present with diarrhea following antibacterial use. Careful medical history is necessary because CDAD has been reported to occur more than 2 months after the administration of antibacterial agents.

If CDAD is suspected or confirmed, ongoing antibacterial use not directed against *C. difficile* may need to be discontinued. Appropriate fluid and electrolyte management, protein supplementation, antibacterial treatment of *C. difficile*, and surgical evaluation should be instituted as clinically indicated.

5.9 Persisting or Relapsing *S. aureus* Bacteremia/Endocarditis

Patients with persisting or relapsing *S. aureus* bacteremia/endocarditis or poor clinical response should have repeat blood cultures. If a blood culture is positive for *S. aureus*; minimum inhibitory concentration (MIC) susceptibility testing of the isolate should be performed using a standardized procedure, and diagnostic evaluation of the patient should be performed to rule out sequestered foci of infection. Appropriate surgical intervention (e.g., debridement, removal of prosthetic devices, valve replacement surgery) and/or consideration of a change in antibacterial regimen may be required.

Failure of treatment due to persisting or relapsing *S.*

