

Piprazon 2.25 Injection

Piperacillin (2000 mg) + Tazobactam (250 mg) Injection

Description:

This combination injection contains Piperacillin, a broad-spectrum β -lactam antibiotic from the penicillin group, and Tazobactam, a β -lactamase inhibitor. Together, they work synergistically to combat a wide range of bacterial infections, including those caused by β -lactamase-producing strains that resist conventional penicillins.

Composition

- **Piperacillin Sodium:** 2000 mg
 - **Tazobactam Sodium:** 250 mg
 - Reconstituted with sterile water for injection.
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Indications

This combination is used to treat serious bacterial infections, including:

1. Lower respiratory tract infections (e.g., pneumonia).
 2. Complicated urinary tract infections (e.g., pyelonephritis).
 3. Intra-abdominal infections (e.g., peritonitis).
 4. Skin and soft tissue infections (e.g., diabetic foot infections).
 5. Febrile neutropenia.
 6. Bone and joint infections.
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Dosage and Administration

Adult Dosage:

- Typically **4.5 g** (Piperacillin 4000 mg + Tazobactam 500 mg) administered intravenously every 6-8 hours.

- Dosage may vary based on the severity of infection, renal function, or body weight.

Renal Impairment Adjustments:

- Dose should be reduced based on creatinine clearance (CrCl).

Reconstitution:

- Add appropriate sterile diluent (e.g., sterile water or saline). Shake well until dissolved.
 - Administer via slow IV injection or infusion over 20-30 minutes.
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Mechanism of Action

1. **Piperacillin:** Inhibits bacterial cell wall synthesis by binding to penicillin-binding proteins (PBPs), leading to cell lysis and death.
 2. **Tazobactam:** Inhibits β -lactamase enzymes produced by resistant bacteria, protecting Piperacillin from degradation and extending its activity.
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Contraindications

- Hypersensitivity to penicillins, cephalosporins, or β -lactam antibiotics.
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Precautions

1. **Allergy:** Monitor for signs of anaphylaxis or hypersensitivity reactions.
2. **Renal Function:** Adjust dosage in patients with impaired renal function.
3. **CNS Effects:** High doses may cause seizures, especially in patients with underlying conditions or renal dysfunction.

4. **Electrolyte Imbalance:** Monitor serum potassium during prolonged therapy.
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Side Effects

- Nausea, vomiting, diarrhea.
 - Rash or itching.
 - Electrolyte imbalances (e.g., hypokalemia).
 - Thrombophlebitis at the injection site.
 - Rarely, anaphylaxis or Clostridium difficile-associated diarrhea.
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Storage

- Store vials at 20–25°C (68–77°F). Protect from light.
 - Use reconstituted solution immediately or as per stability guidelines.
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Note:

This injection should only be used under the supervision of a healthcare professional. Ensure compatibility with other medications if given concurrently.

Manufactured in India for:



Cafoli Lifecare Pvt. Ltd.

(An ISO 9001: 2015 Certified Co.)

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