

## Piprazon 2.25 Injection

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

#### Description:

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

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### 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  $\beta$ -lactamase enzymes produced by resistant bacteria, protecting Piperacillin from degradation and extending its activity.

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### Contraindications

- Hypersensitivity to penicillins, cephalosporins, or  $\beta$ -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.

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