

Betalactams Piperacillin Cas No. : 9012-26-4

This medication is used to treat a wide variety of bacterial infections. This medication is a combination of 2 drugs. Piperacillin is a penicillin-type antibiotic that works by stopping the growth of bacteria. Tazobactam is an enzyme inhibitor (beta-lactamase inhibitor) that helps the piperacillin work better.

Active Pharmaceuticals Ingredients Manufacturers



Taj Pharma PDF

Taj Pharmaceuticals Ltd.**Betalactams Piperacillin****CAS No. : 9012-26-4**

Piperacillin sodium is derived from D(-)-α-aminobenzyl-penicillin.

The chemical name of piperacillin sodium is sodium (2S,5R,6R)-6-[(R)-2-(4-ethyl-2,3-dioxo-1-piperazine-carboxamido)-2-phenylacetamido]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate.

The chemical formula is C₂₃H₂₆N₅NaO₇S and the molecular weight is 539.5.

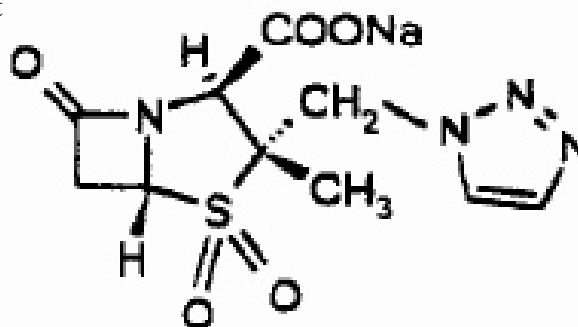
Piperacillin-tazobactam is a beta-lactam/beta-lactamase inhibitor combination with a broad spectrum of antibacterial activity that includes Gram-positive and -negative aerobic and anaerobic bacteria.

Piperacillin-tazobactam retains its in vitro activity against broad-spectrum beta-lactamase-producing and some extended-spectrum beta-lactamase-producing Enterobacteriaceae, but not against isolates of Gram-negative bacilli harboring AmpC beta-lactamases.

Piperacillin-tazobactam has recently been reformulated to include ethylenediaminetetraacetic acid and sodium citrate; this new formulation has been shown to be compatible in vitro with the two aminoglycosides, gentamicin and amikacin, allowing for simultaneous

Y-site infusion, but not with tobramycin. Multicenter, randomized, double-blinded clinical trials have demonstrated piperacillin-tazobactam to be as clinically effective as relevant comparator antibiotics.

Clinical trials have demonstrated piperacillin-tazobactam to be effective for the treatment of patients with intra-abdominal infections, skin and soft tissue infections, lower respiratory tract infections, complicated urinary tract infections, gynecological infections and more recently, febrile neutropenia. Piperacillin-tazobactam has an excellent safety and tolerability profile and continues to be a reliable option for the empiric treatment of moderate-to-severe infections in hospitalized patients.

**USES**

This medication is used to treat a wide variety of bacterial infections. This medication is a combination of 2 drugs. Piperacillin is a penicillin-type antibiotic that works by stopping the growth of bacteria. Tazobactam is an enzyme inhibitor (beta-lactamase inhibitor) that helps the piperacillin work better.

This antibiotic treats only bacterial infections. It will not work for viral infections (e.g., common cold, flu). Unnecessary use or misuse of any antibiotic can lead to its decreased effectiveness.

HOW TO USE

This medication is mixed in IV fluid and given by injection into a vein by a health care professional. Follow all instructions for preparation and use of this product. Before using this product, check it visually for particles or discoloration. If either is present, do not use the liquid. If you have questions about the use of this medication, if you are using the frozen pre-mixed solution, thaw the container at room temperature or in the refrigerator. If the bag is thawed in the refrigerator, let it sit at room temperature for at least 1 hour before using



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Do not thaw by putting in warm/hot water or microwaving. After thawing, shake well and squeeze the container to check for leaks. Discard solution if the container leaks. Do not re-freeze the solution after thawing. This medication is given slowly over at least 30 minutes, usually every 6 hours or as directed by your doctor. Give aminoglycosides (e.g., gentamicin) separately from this medication. Do not mix together in the same IV fluid.

SIDE EFFECTS

Swelling, redness, pain, or soreness at the injection site may occur. Dizziness, trouble sleeping, nausea, vomiting, diarrhea, or headache may also occur. If any of these effects persist or worsen, tell your doctor or pharmacist promptly.

Remember that your doctor has prescribed this medication because he or she has judged that the benefit to you is greater than the risk of side effects. Many people using this medication do not have serious side effects.

PRECAUTIONS

Before using piperacillin/tazobactam, tell your doctor or pharmacist if you are allergic to either of the drugs; or to penicillin, cephalosporin, or beta-lactam antibiotics; or to other beta-lactamase inhibitors such as sulbactam; or if you have any other allergies.

Before using this medication, tell your doctor or pharmacist your medical history, especially of: bleeding problems, cystic fibrosis, kidney disease, seizures.

This medication contains sodium. Consult your doctor or pharmacist if you are on a salt-restricted diet or if you have a condition that could be worsened by an increase in salt intake (e.g., congestive heart failure, high blood pressure).

Before having surgery, tell your doctor or dentist that you are using this medication.

MISSED DOSE

If you miss a dose, use it as soon as you remember. If it is near the time of the next dose, skip the missed dose and resume your usual dosing schedule. Do not double the dose to catch up.

STORAGE

Before mixing, store vials at room temperature between 68-77 degrees F (20-25 degrees C). After mixing, store at room temperature or in the refrigerator at 36-46 degrees F (2-8 degrees C). If stored at room temperature, use/discard the mixed solution within 24 hours.

Information Associated with Product:

DOSAGE

Piperacillin and tazobactam is supplied in the following sizes:

Each Zosyn 2.25 g vial provides piperacillin sodium equivalent to 2 grams of piperacillin and tazobactam sodium equivalent to 0.25 g of tazobactam.

Each vial contains 5.58 mEq (128 mg) of sodium. Supplied 10 per box-NDC 0206-8852-16 Each Zosyn 3.375 g vial provides piperacillin sodium equivalent to 3 grams of piperacillin and tazobactam sodium equivalent to 0.375 g of tazobactam.



Each vial contains 8.38 mEq (192 mg) of sodium. Supplied 10 per box- NDC 0206-8854-16 Each Zosyn 4.5 g vial provides piperacillin sodium equivalent to 4 grams of piperacillin and tazobactam sodium equivalent to 0.5 g of tazobactam.

Each vial contains 11.17 mEq (256 mg) of sodium. Supplied 10 per box- NDC 0206-8855-16 Each Zosyn 2.25 g ADD- vial provides piperacillin sodium equivalent to 2 grams of piperacillin and tazobactam sodium equivalent to 0.25 g of tazobactam.

piperacillin and tazobactam in Container (PL 2040 Plastic) is supplied as a frozen, iso-osmotic, sterile, nonpyrogenic solution in single dose plastic containers as follows:

2.25 g (piperacillin sodium equivalent to 2 g piperacillin/tazobactam sodium equivalent to 0.25 g tazobactam) in 50 mL. Each container has 5.58 mEq (128 mg) of sodium. Supplied 24/box-NDC 0206-8860-02

3.375 g (piperacillin sodium equivalent to 3 g piperacillin/tazobactam sodium equivalent to 0.375 g tazobactam) in 50 mL. Each container has 8.38 mEq (192 mg) of sodium. Supplied 24/box-NDC 0206-8861-02

4.5 g (piperacillin sodium equivalent to 4 g piperacillin/tazobactam sodium equivalent to 0.5 g tazobactam) in 100 mL. Each container has 11.17 mEq (256 mg) of sodium. Supplied 12/box-NDC 0206-8862-02



Note /Government Notification: These chemicals are designated as those that are used in the manufacture of the controlled substances and are important to the manufacture of the substances. For any (Control Substance) products Import and Export *** subjected to your country government laws /control substance ACT.

Information: The information on this web page is provided to help you to work safely, but it is intended to be an overview of hazards, not a replacement for a full Material Safety Data Sheet (MSDS). MSDS forms can be downloaded from the web sites of many chemical suppliers. Also that the information on the PTCL Safety web site, where this page was hosted, has been copied onto many other sites, often without permission. If you have any doubts about the veracity of the information that you are viewing, or have any queries, please check the URL that your web browser displays for this page. If the URL begins "www.tajapi.com/www/Denatonium Benzoate.htm/" the page is maintained by the Safety Officer in Physical Chemistry at Oxford University. If not, this page is a copy made by some other person and we have no responsibility for it.

The Controlled Substances Act (CSA) was enacted into law by the Congress of the United States as Title II of the Comprehensive Drug Abuse Prevention and Control Act of 1970.[1] The CSA is the federal U.S. drug policy under which the manufacture, importation, possession, use and distribution of certain substances is regulated. The Act also served as the national implementing legislation for the Single Convention on Narcotic Drugs

This document plus the full buyer/ prescribing information, prepared for health professionals can be found at:

<http://www.tajapi.com>

or by contacting the sponsor, Taj Pharmaceuticals Limited., at:
91 022 30601000.

This leaflet was prepared by
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