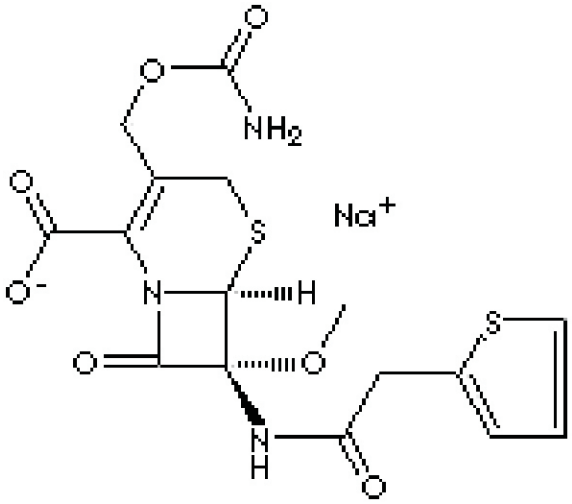
Taj Pharmaceuticals Ltd.

Cefoxitin Sodium

CAS No. : 35607-66-0

CAS NO. 35607-66-0 (Base)
33564-30-6 (Sodium)

CEFOXITIN SODIUM
EINECS NO. 252-641-2, 251-574-6
FORMULA C16H17N3O7S2·Na
MOL WT. 449.44



CLASSIFICATION

ANTIBOITICS / CEPHALOSPORINS /

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE White to off-white crystalline powder
MELTING POINT
BOILING POINT
SPECIFIC GRAVITY
SOLUBILITY IN WATER
STABILITY Stable under ordinary conditions.

GENERAL DESCRIPTION & APPLICATIONS

Cefoxitin Sodium: a broad range of gram-positive and gram-negative second generation cephalosporins with resistance to beta-lactamase; administered intramuscularly or intravenously. Chemical designation is Monosodium (6R-cis)-3-[(carbamoyloxy)methyl]-7-methoxy-8-oxo-7-(2-thienylacetamido)-5-thia-1- azabicyclo[4.2.0]oct-2-ene-2-carboxylate.

Cephalosporin: any of a group of broad-spectrum derived from species of fungi of the genus Cephalosporium and are related to the penicillins in both structure and mode of action but relatively penicillinase-resistant antibiotics. These antibiotics have low toxicity for the host, considering their broad antibacterial spectrum.

They have the active nucleus of beta-lactam ring which results in a variety of antibacterial and pharmacologic characteristics when modified mainly by substitution at 3 and 7 positions. Their antibacterial activities result from the inhibition of mucopeptide synthesis in the cell wall. They are widely used to treat gonorrhea, meningitis, pneumococcal, staphylococcal and streptococcal infections.

The cephalosporin class of antibiotics is usually divided into generations by their antimicrobial properties. Three generations of cephalosporins are recognized and the fourth has been grouped.

Each newer generation of cephalosporins has broader range of activity against gram-negative organisms but a narrower range of activity against gram-positive organisms than the preceding generation.

The newer agents have much longer half-lives resulting in the decrease of dosing frequency. Accordingly, the third-generation cephalosporins can penetrate into tissues well, and thus antibiotic levels are good in various body fluids.

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Chemistry - Actually a cephamycin, cefoxitin sodium is a semisynthetic antibiotic that is derived from cephamycin C which is produced by Streptomyces lactamdurans. It occurs as a white to off-white, somewhat hygroscopic powder or granules with a slight characteristic odor. It is very soluble in water and slightly soluble in alcohol. Each gram of cefoxitin sodium contains 2.3 mEq of sodium.

Storage/Stability/Compatibility - Cefoxitin sodium powder for injection should be stored at temperatures less than 30°C and should not be exposed to temperatures greater than 50°C. The frozen solution for injection should be stored at temperatures no higher than -20°C.

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.

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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

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