

Doripenem (monohydrate)

Catalog No: tcsc2076



Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

364622-82-2

Formula:

$C_{15}H_{26}N_4O_7S_2$

Pathway:

Anti-infection

Target:

Bacterial

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

S 4661 monohydrate

Observed Molecular Weight:

438.52

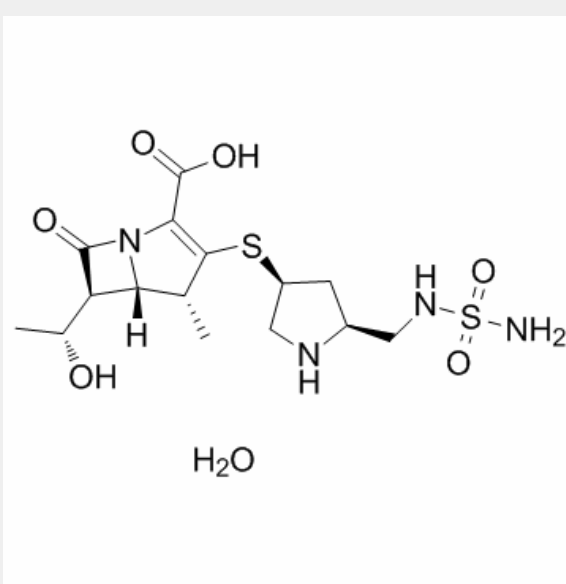
Product Description

Doripenem monohydrate is a new member of the carbapenem class of beta-lactam antibiotics with broad-spectrum coverage of Gram-positive, Gram-negative and anaerobic pathogens.

Target: Antibacterial

Doripenem is an ultra-broad-spectrum injectable antibiotic. It is a beta-lactam and belongs to the subgroup of carbapenems. It was launched by Shionogi Co. of Japan under the brand name Finibax in 2005 and is being marketed outside Japan by Johnson & Johnson. It is particularly active against *Pseudomonas aeruginosa*. It is recommended that those allergic to doripenem or to any type of beta-lactam antibiotics such as cephalosporin or other Carbapenems not receive doripenem.

Doripenem appears as crystalline powder anywhere from a white to somewhat yellowish colour. Doripenem is moderately soluble in water, slightly soluble in methanol, and virtually insoluble in ethanol. Doripenem is also solution in N,N-dimethylformamide. Doripenem's chemical configuration has 6 asymmetrical carbon atoms (6 stereocentres) and is most commonly supplied as one pure isomer. In terms of doripenem for injection, the crystallized powered drug can form a monohydrate when mixed with water. However, Doripenem has not been proven to possess polymorphism.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!