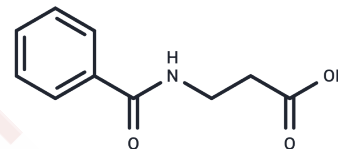


Betamipron

Chemical Properties

CAS No. :	3440-28-6
Formula:	C ₁₀ H ₁₁ NO ₃
Molecular Weight:	193.2
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Betamipron (CS-443) is used combination with panipenem to prevent nephrotoxicity and inhibit panipenem uptake into the renal tubule.
Targets(IC50)	Antibacterial, Antibiotic
In vivo	Panipenem is a non-intestinal carbapenem-class antibiotic that demonstrates antimicrobial activity against both Gram-negative/positive aerobic bacteria and anaerobic bacteria, including Streptococcus pneumoniae and species producing β -lactamase.

Solubility Information

Solubility	Ethanol: 37 mg/mL (191.51 mM), Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 50 mg/mL (258.8 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (10.35 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.176 mL	25.8799 mL	51.7598 mL
5 mM	1.0352 mL	5.176 mL	10.352 mL
10 mM	0.5176 mL	2.588 mL	5.176 mL
50 mM	0.1035 mL	0.5176 mL	1.0352 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Ohashi N, et al. J Infect Chemother, 2005, 11(1), 24-31.

Goa KL, et al. Drugs, 2003, 63(9), 913-925.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481