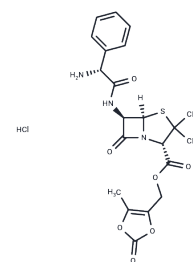


Lenampicillin hydrochloride

Chemical Properties

CAS No. :	80734-02-7
Formula:	C ₂₁ H ₂₄ ClN ₃ O ₇ S
Molecular Weight:	497.95
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	Lenampicillin hydrochloride is an orally active prodrug of Ampicillin. Lenampicillin hydrochloride is an effective beta-lactam antibacterial agent that inhibits bacterial penicillin-binding proteins. It is applied in the investigation of suppurative skin and soft tissue infection.
Targets(IC50)	Antibacterial
In vivo	Lenampicillin hydrochloride (LAPC) is identified for its main metabolites in rats and dogs. The main metabolite in peripheral plasma is 2,3-butanediol in rats and dogs, On the other hand, high levels of acetoin are found in portal plasma for an early period after the dosing of LAPC. These results show that the biotransformation of propriety in LAPC to acetoin carried out mainly in intestinal tissues, but acetoin is converted to 2,3-butanediol in the liver[3]. Lenampicillin hydrochloride (p.o.; 0-1000 mg/kg) does not cause death in dogs, and the maximum dose of in this acute toxicity study is recorded because of causing emesis[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0082 mL	10.0412 mL	20.0823 mL
5 mM	0.4016 mL	2.0082 mL	4.0165 mL
10 mM	0.2008 mL	1.0041 mL	2.0082 mL
50 mM	0.0402 mL	0.2008 mL	0.4016 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

FUMIO OGINO, et al. ACUTE TOXICITY OF LENAMPICILLIN HYDROCHLORIDE (KBT-1585) IN MICE, RATS AND DOGS
Yamabe S, et al. Non-mutagenicity of KBT-1585, a novel ester of ampicillin. *Chemioterapia*. 1984 Feb;3(1):60-2.
Fujita K, et al. Clinical evaluation of lenampicillin in the treatment of superficial suppurative skin and soft tissue infection. A double-blind study comparing amoxicillin. *Jpn J Antibiot*. 1985 Jul;38(7):1794-818.

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