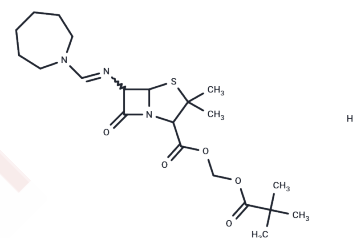


Pivmecillinam hydrochloride

Chemical Properties

CAS No. :	32887-03-9
Formula:	C ₂₁ H ₃₄ ClN ₃ O ₅ S
Molecular Weight:	476.03
Storage:	Store at low temperature, Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Pivmecillinam hydrochloride (FL-1039 hydrochloride) is an orally active prodrug of mecillinam, an extended-spectrum penicillin antibiotic effective against gram-negative organisms, and is used as a substitute for amdinocillin.
Targets(IC50)	Antibacterial, Antibiotic

Solubility Information

Solubility	DMSO: 40 mg/mL (84.03 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 2 mg/mL (4.2 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	2.1007 mL	10.5035 mL	21.0071 mL
5 mM	0.4201 mL	2.1007 mL	4.2014 mL
10 mM	0.2101 mL	1.0504 mL	2.1007 mL
50 mM	0.042 mL	0.2101 mL	0.4201 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

Bleidorn J . Pivmecillinam is more effective than ibuprofen in symptom resolution in women with uncomplicated urinary tract infection: antibiotic treatment for UTI is important[J]. BMJ Evidence-Based Medicine, 2018.

Ingvild V , Marianne B , Nils G , et al. Ibuprofen versus pivmecillinam for uncomplicated urinary tract infection in women—A double-blind, randomized non-inferiority trial[J]. PLOS Medicine, 2018, 15(5):e1002569-.

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