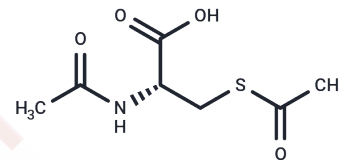


Dacisteine

Chemical Properties

CAS No. : 18725-37-6
 Formula: C₇H₁₁NO₄S
 Molecular Weight: 205.23
 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	Dacisteine (N,S-Diacetyl-L-cysteine) is an inhibitor of New Delhi metallo-beta-lactamase-1 (NDM-1) with an IC ₅₀ of 1000 μM.
Targets(IC ₅₀)	Others,Endogenous Metabolite
In vivo	Dacisteine can be used for research on the treatment of cardiovascular and cerebrovascular diseases caused by platelet aggregation[1].

Solubility Information

Solubility	DMSO: 250 mg/mL (1218.15 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: 5 mg/mL (24.36 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	4.8726 mL	24.3629 mL	48.7258 mL
5 mM	0.9745 mL	4.8726 mL	9.7452 mL
10 mM	0.4873 mL	2.4363 mL	4.8726 mL
50 mM	0.0975 mL	0.4873 mL	0.9745 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

Cui-Gai Bai, et al. Cysteine and Its Derivatives as New Delhi Metallo-beta-lactamase-1 Inhibitors. *Current Enzyme Inhibition*, 2015, 11, 46-57

FanKe, et al. Application of compound of thioether acid structure in preparing anti-platelet aggregation drugs. Patent WO2019007015A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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