

NDM-1 inhibitor-3

Chemical Properties

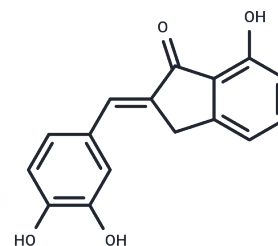
CAS No. :

Formula: C₁₆H₁₂O₄

Molecular Weight: 268.26

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	NDM-1 inhibitor-3 is a New Delhi Metallo-β-lactamase-1 (NDM-1) inhibitor (K _i : 4 μM) widely found in nature and is associated with antibiotic resistance.
Targets(IC50)	Others,Antibacterial
In vitro	New Delhi Metallo-β-lactamase-1 (NDM-1), an acquired metallo-carbapenemase first identified in 2009, is now regarded as a highly significant target for developing β-lactam-β-lactamase inhibitor combinations effective against NDM-producing clinical isolates.

Solubility Information

Solubility	DMSO: 50 mg/mL (186.39 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 (7.46 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	3.7277 mL	18.6386 mL	37.2773 mL
5 mM	0.7455 mL	3.7277 mL	7.4555 mL
10 mM	0.3728 mL	1.8639 mL	3.7277 mL
50 mM	0.0746 mL	0.3728 mL	0.7455 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

Caburet J, et al. A fragment-based drug discovery strategy applied to the identification of NDM-1 β -lactamase inhibitors. *Eur J Med Chem.* 2022;240:114599.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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