

S100P-IN-1

Chemical Properties

CAS No. : 690991-06-1

Formula: C₂₅H₁₆N₂O₆

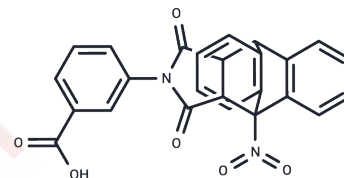
Molecular Weight: 440.4

Keep away from direct sunlight, Keep away from moisture

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	S100P-IN-1 is a potent S100P inhibitor. S100P-IN-1 has anti-metastatic effects on pancreatic cancer (pancreatic) cells.
Targets(IC50)	Others
In vitro	S100P-IN-1 (Compound 4) inhibits the binding of S100P to RAGE in a dose-dependent manner[1]. S100P-IN-1 (10 μM, 24 hours) specifically inhibits S100P-mediated cell invasion without apparent cytotoxicity[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (181.65 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: 3.3 mg/mL (7.49 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	2.2707 mL	11.3533 mL	22.7066 mL
5 mM	0.4541 mL	2.2707 mL	4.5413 mL
10 mM	0.2271 mL	1.1353 mL	2.2707 mL
50 mM	0.0454 mL	0.2271 mL	0.4541 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

Ramatoulie Camara, et al. Discovery of novel small molecule inhibitors of S100P with in vitro anti-metastatic effects on pancreatic cancer cells. Eur J Med Chem. 2020 Oct 1;203:112621.

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