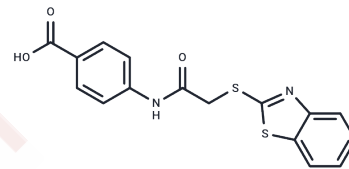


PTP1B-IN-22

Chemical Properties

CAS No. :	86109-60-6
Formula:	C ₁₆ H ₁₂ N ₂ O ₃ S ₂
Molecular Weight:	344.41
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	PTP1B-IN-22 is a protein tyrosine phosphatase 1B (PTP1B) inhibitor that inhibits glucose uptake in skeletal muscle L6 myotubes.
Targets(IC50)	Phosphatase
In vitro	PTP1B-IN-22 shows 66.4 % in vitro PTP1B inhibition and 39.6 % increase in glucose uptake[1].

Solubility Information

Solubility	DMSO: 9 mg/mL (26.13 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 0.5 mg/mL (1.45 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	2.9035 mL	14.5176 mL	29.0352 mL
5 mM	0.5807 mL	2.9035 mL	5.807 mL
10 mM	0.2904 mL	1.4518 mL	2.9035 mL
50 mM	0.0581 mL	0.2904 mL	0.5807 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

Prashant J, et, al. Molecular modeling and synthesis of ZINC02765569 derivatives as protein tyrosine phosphatase 1B inhibitors: lead optimization study. 2012;22: 1618-23.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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