

IGS-1.76

Chemical Properties

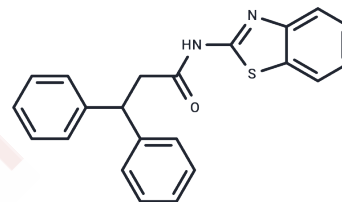
CAS No. : 313480-47-6

Formula: C₂₂H₁₈N₂O₂S

Molecular Weight: 358.46

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	IGS-1.76 exhibits pronounced affinity towards hNCS-1 and effectively modulates the interaction between hNCS-1 and Ric8a. Moreover, IGS-1.76 proficiently inhibits the complex formed by human NCS-1 and Ric8a.
Targets(IC50)	CaMK,Others
In vitro	IGS-1.76, which efficiently inhibits the human NCS-1/Ric8a complex with improved binding potency.

Solubility Information

Solubility	DMSO: 22.5 mg/mL (62.77 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (5.58 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	2.7897 mL	13.9486 mL	27.8971 mL
5 mM	0.5579 mL	2.7897 mL	5.5794 mL
10 mM	0.279 mL	1.3949 mL	2.7897 mL
50 mM	0.0558 mL	0.279 mL	0.5579 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

Carlos Roca, et al. Deciphering the Inhibition of the Neuronal Calcium Sensor 1 and the Guanine Exchange Factor Ric8a with a Small Phenothiazine Molecule for the Rational Generation of Therapeutic Synapse Function Regulators. *J Med Chem.* 2018 Jul 26;61(14):5910-5921.

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