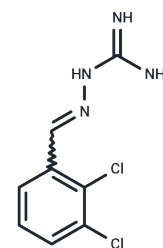


NSC 65809

## Chemical Properties

CAS No. : 94023-67-3  
 Formula: C<sub>8</sub>H<sub>8</sub>Cl<sub>2</sub>N<sub>4</sub>  
 Molecular Weight: 231.08  
 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	NSC-65809 (Raphin1) is a selective inhibitor of R15B.
Targets(IC50)	Phosphatase
In vitro	In cells, Raphin1 caused a rapid and transient accumulation of its phosphorylated substrate, resulting in a transient attenuation of protein synthesis. In vitro, Raphin1 inhibits the recombinant R15B-PP1c holoenzyme, but not the closely related R15A-PP1c, by interfering with substrate recruitment
In vivo	Raphin1 was orally bioavailable, crossed the blood-brain barrier, and demonstrated efficacy in a mouse model of Huntington's disease.

## Solubility Information

Solubility	DMSO: 35 mg/mL (151.46 mM), Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3275 mL	21.6375 mL	43.2751 mL
5 mM	0.8655 mL	4.3275 mL	8.655 mL
10 mM	0.4328 mL	2.1638 mL	4.3275 mL
50 mM	0.0866 mL	0.4328 mL	0.8655 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

Agnieszka Krzyzosiak, Anna Sigurdardottir, Laura Luh.et al.Target-Based Discovery of an Inhibitor of the Regulatory Phosphatase PPP1R15B.Cell. 2018 Aug 23;174(5):1216-1228.e19.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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