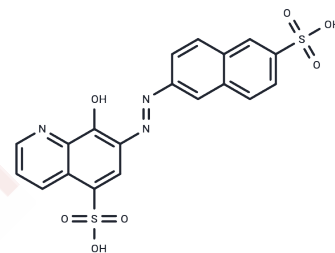


NSC-87877

Chemical Properties

CAS No. : 56990-57-9
 Formula: C₁₉H₁₃N₃O₇S₂
 Molecular Weight: 459.45
 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-87877 is an effective inhibitor of Shp2 and Shp1 protein tyrosine phosphatases (IC ₅₀ =0.318 μM, 0.355 μM of shp2 and shp1, respectively). It also inhibits dual-specificity phosphatase 26 (DUSP26).
Targets(IC ₅₀)	Apoptosis, Phosphatase

Solubility Information

Solubility	DMSO: 137.5 mg/mL (299.27 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (21.77 mM), Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.18 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	2.1765 mL	10.8826 mL	21.7652 mL
5 mM	0.4353 mL	2.1765 mL	4.353 mL
10 mM	0.2177 mL	1.0883 mL	2.1765 mL
50 mM	0.0435 mL	0.2177 mL	0.4353 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

Chen L, et al. Discovery of a novel shp2 protein tyrosine phosphatase inhibitor. Mol Pharmacol. 2006 Aug;70(2): 562-70.

Song M, et al. NSC-87877, inhibitor of SHP-1/2 PTPs, inhibits dual-specificity phosphatase 26 (DUSP26). Biochem Biophys Res Commun. 2009 Apr 17;381(4):491-5.

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