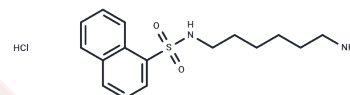


W-5 hydrochloride

Chemical Properties

CAS No. :	61714-25-8
Formula:	C ₁₆ H ₂₃ ClN ₂ O ₂ S
Molecular Weight:	342.88
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	W-5 hydrochloride (N-(6-Aminoethyl)-1-naphthalenesulfonamide HCl) is a potent calmodulin antagonist.
Targets(IC50)	CaMK
In vitro	W-5 hydrochloride inhibits the proliferation of HR and KF cells with IC50 of 6.4μM and 8.6 μM, respectively[1].

Solubility Information

Solubility	DMSO: 3.43 mg/mL (10 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: 1 mg/mL (2.92 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	2.9165 mL	14.5824 mL	29.1647 mL
5 mM	0.5833 mL	2.9165 mL	5.8329 mL
10 mM	0.2916 mL	1.4582 mL	2.9165 mL
50 mM	0.0583 mL	0.2916 mL	0.5833 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

Kikuchi Y, Iwano I, Kato K. Effects of calmodulin antagonists on human ovarian cancer cell proliferation in vitro. *Biochem Biophys Res Commun.* 1984 Aug 30;123(1):385-92.

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