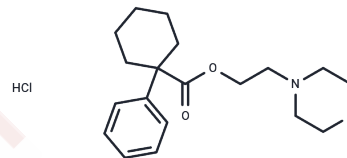


PRE-084 hydrochloride

Chemical Properties

CAS No. :	75136-54-8
Formula:	C ₁₉ H ₂₈ ClNO ₃
Molecular Weight:	353.88
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	PRE-084 hydrochloride is a selective agonist of σ 1 (IC ₅₀ :44 nM, in the sigma receptor assay).
Targets(IC ₅₀)	Akt,NO Synthase,Sigma receptor

Solubility Information

Solubility	DMSO: 31 mg/mL (87.6 mM),Sonication is recommended. H ₂ O: 35.4 mg/mL (100.03 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.65 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	2.8258 mL	14.1291 mL	28.2582 mL
5 mM	0.5652 mL	2.8258 mL	5.6516 mL
10 mM	0.2826 mL	1.4129 mL	2.8258 mL
50 mM	0.0565 mL	0.2826 mL	0.5652 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

Peviani M, et al. Neuroprotective effects of the Sigma-1 receptor (S1R) agonist PRE-084, in a mouse model of motor neuron disease not linked to SOD1 mutation. *Neurobiol Dis.* 2014 Feb;62:218-232.

Su TP, et al. Sigma compounds derived from phencyclidine: identification of PRE-084, a new, selective sigma ligand. *J Pharmacol Exp Ther.* 1991 Nov;259(2):543-550.

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