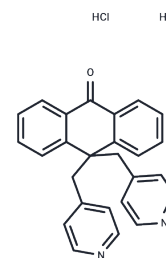


XE 991 dihydrochloride

Chemical Properties

CAS No. :	122955-13-9
Formula:	C ₂₆ H ₂₂ Cl ₂ N ₂ O
Molecular Weight:	449.37
Storage:	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	XE 991 dihydrochloride is a Kv7 (KCNQ) channel blocker. XE 991 dihydrochloride potently inhibits Kv7.1 (KCNQ1), Kv7.2 (KCNQ2), Kv7.2 + Kv7.3 (KCNQ3) channel, and M-current (IC ₅₀ s: 0.75 μM, 0.71 μM, 0.6 μM, and 0.98 μM, respectively).
Targets(IC ₅₀)	Potassium Channel

Solubility Information

Solubility	DMSO: 20.42 mg/mL (45.44 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: 0.5 mg/mL (1.11 mM),Sonication is recommended. 10% DMSO+90% Saline: 2.04 mg/mL (4.54 mM),Solution. <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	2.2253 mL	11.1267 mL	22.2534 mL
5 mM	0.4451 mL	2.2253 mL	4.4507 mL
10 mM	0.2225 mL	1.1127 mL	2.2253 mL
50 mM	0.0445 mL	0.2225 mL	0.4451 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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