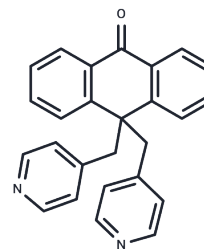


XE991

## Chemical Properties

CAS No. : 122955-42-4  
 Formula: C<sub>26</sub>H<sub>20</sub>N<sub>2</sub>O  
 Molecular Weight: 376.45  
 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	XE991 is a novel and selective Kv7 (KCNQ) channel blocker. XE 991 dihydrochloride inhibits Kv7.1 (KCNQ1), Kv7.2 (KCNQ2), Kv7.2 + Kv7.3 (KCNQ3) channels, and M-current, and can be used for the study of neurological diseases.
Targets(IC50)	Potassium Channel
In vitro	XE991 and DMP 543 have EC <sub>50</sub> values of 490 nM and 700 nM, respectively, for enhancing [3H] acetylcholine release from rat brain slices[2].

## Solubility Information

Solubility	DMSO: 100 mg/mL (265.64 mM) ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6564 mL	13.282 mL	26.564 mL
5 mM	0.5313 mL	2.6564 mL	5.3128 mL
10 mM	0.2656 mL	1.3282 mL	2.6564 mL
50 mM	0.0531 mL	0.2656 mL	0.5313 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

Wang HS, et al. KCNQ2 and KCNQ3 potassium channel subunits: molecular correlates of the M-channel. Science. 1998 Dec 4;282(5395):1890-3.

Zaczek R, et al. Two new potent neurotransmitter release enhancers, 10,10-bis(4-pyridinylmethyl)-9(10H)-anthracenone and 10,10-bis(2-fluoro-4-pyridinylmethyl)-9(10H)-anthracenone: comparison to linopirdine. J Pharmacol Exp Ther. 1998 May;285(2):724-30.

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