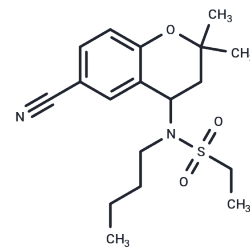


IKs124

Chemical Properties

CAS No. :	199335-15-4
Formula:	C ₁₈ H ₂₆ N ₂ O ₃ S
Molecular Weight:	350.48
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	IKs124 is a KCNE2/KCNQ1 potassium channel blocker with an IC ₅₀ = 8 nM, as well as an IC ₅₀ of 370 nM and 440 nM for KCNE1 and KCNE3, respectively, and can be used to study peptic ulcers.
Targets(IC ₅₀)	Potassium Channel
In vitro	IKs124 is a selective activator of KCNQ1/KCNE1 (IKs) potassium channels. In HEK293 cells expressing these channels, IKs124 enhanced IKs current in a dose-dependent manner from 0.1 to 10 μM, with maximal stimulation (~60%) observed within 5 minutes at 10 μM. IKs124 did not affect other potassium channels such as hERG or Kir2.1, demonstrating good selectivity[1].
In vivo	In isolated guinea pig atrial preparations, IKs124 (1 μM) significantly shortened action potential duration (APD), with more pronounced effects at higher pacing frequencies. This indicates that IKs124 enhances repolarization via IKs activation and may be useful in treating arrhythmias associated with prolonged repolarization[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8532 mL	14.2661 mL	28.5323 mL
5 mM	0.5706 mL	2.8532 mL	5.7065 mL
10 mM	0.2853 mL	1.4266 mL	2.8532 mL
50 mM	0.0571 mL	0.2853 mL	0.5706 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

Heitzmann D, et al. Heteromeric KCNE2/KCNQ1 potassium channels in the luminal membrane of gastric parietal cells. J Physiol. 2004 Dec 1;561(Pt 2):547-57[1].

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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