

BKCa activator-1

Chemical Properties

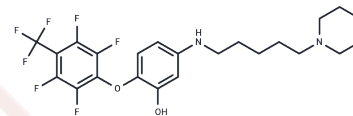
CAS No. :

Formula: C₂₂H₂₃F₇N₂O₃

Molecular Weight: 496.418

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	BKCa activator-1 (Compound 51b) is an orally active activator of BKCa calcium-activated potassium channels with an EC ₅₀ of 2.82 μM. It promotes K ⁺ efflux, leading to cell membrane hyperpolarization and inhibition of smooth muscle contraction. In a spontaneous hypertensive rat (SHR) model, it alleviates urinary incontinence and exhibits antitussive effects in a guinea pig cough model.
Targets(IC50)	Potassium Channel

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0144 mL	10.0721 mL	20.1442 mL
5 mM	0.4029 mL	2.0144 mL	4.0288 mL
10 mM	0.2014 mL	1.0072 mL	2.0144 mL
50 mM	0.0403 mL	0.2014 mL	0.4029 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.

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