

TWIK-1/TREK-1-IN-1

Chemical Properties

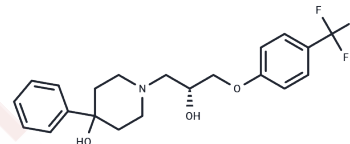
CAS No. : 1440532-30-8

Formula: C₂₁H₂₄F₃NO₃

Molecular Weight: 395.42

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	Compound 2a, identified as TWIK-1/TREK-1-IN-1, acts as an inhibitor of the TREK-1, a two-pore domain potassium channel (K2p) that forms TREK-1 homodimers and TWIK-1/TREK-1 heterodimers, both significant for its role as an antidepressant target. Furthermore, TWIK-1/TREK-1-IN-3, a related compound, selectively inhibits these channels with IC ₅₀ values of 9.36 μM for TREK-1 homodimers and 14.6 μM for TWIK-1/TREK-1 heterodimers, demonstrating antidepressant-like effects [1].
Targets(IC ₅₀)	Potassium Channel

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.529 mL	12.6448 mL	25.2896 mL
5 mM	0.5058 mL	2.529 mL	5.0579 mL
10 mM	0.2529 mL	1.2645 mL	2.529 mL
50 mM	0.0506 mL	0.2529 mL	0.5058 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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