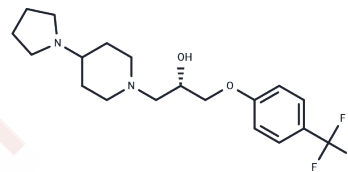


## TWIK-1/TREK-1-IN-3

## Chemical Properties

CAS No. :	1440532-33-1
Formula:	C <sub>19</sub> H <sub>27</sub> F <sub>3</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight:	372.43
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	TWIK-1/TREK-1-IN-3 is a selective and potent inhibitor of the potassium channel TREK-1, effectively inhibiting TREK-1 homodimers and TWIK-1/TREK-1 heterodimers containing two-pore-domain potassium (K <sub>2</sub> p) channels. TWIK-1/TREK-1-IN-3 exhibits antidepressant activity and can be utilized in the study of depression.
Targets(IC50)	Potassium Channel

## Solubility Information

Solubility	DMSO: 20 mg/mL (53.7 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6851 mL	13.4253 mL	26.8507 mL
5 mM	0.537 mL	2.6851 mL	5.3701 mL
10 mM	0.2685 mL	1.3425 mL	2.6851 mL
50 mM	0.0537 mL	0.2685 mL	0.537 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

Lee EH, et al. Novel potent blockers for TWIK-1/TREK-1 heterodimers as potential antidepressants. *Biomed Pharmacother.* 2023 Sep;165:115139.

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