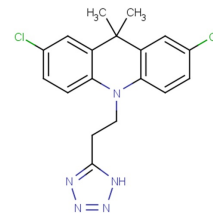


ML67-33

Chemical Properties

CAS No.:	1443290-89-8
Formula:	C ₁₈ H ₁₇ Cl ₂ N ₅
Molecular Weight:	374.27
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	ML67-33 rapidly and reversibly affects K2P2.1 (TREK-1) (EC50s: 36.3 μ M and 9.7 μ M in cell-free and HEK293 cells, respectively). ML67-33 is a selective activator of temperature- and mechano-sensitive K2P channels.
Targets(IC ₅₀)	K2P2.1 TREK-1: (EC50)36.3 μ M K2P2.1 TREK-1,in HEK293 cells: 9.7 μ M(EC50)
In vitro	ML67-33 activates K2P channels and mutants. It has an EC50s of 21.8 \pm 1.3 μ M, 49.4 \pm 1.1 μ M, 30.2 \pm 1.4 μ M, and 27.3 \pm 1.2 μ M for K2P2.1 (TREK-1) W275S, K2P2.1 (TREK-1)-3G, K2P10.1 (TREK-2), K2P4.1 (TRAAK), respectively.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.672 mL	13.359 mL	26.719 mL
5 mM	0.534 mL	2.672 mL	5.344 mL
10 mM	0.267 mL	1.336 mL	2.672 mL
50 mM	0.053 mL	0.267 mL	0.534 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Bagriantsev SN, et al. A high-throughput functional screen identifies small molecule regulators of temperature- and mechano-sensitive K

Inhibitors · Natural Compounds · Compound Libraries

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