ML67-33

Cat. No.:	HY-120348				
CAS No.:	1443290-89-8				
Molecular Formula:	C ₁₈ H ₁₇ Cl ₂ N ₅				
Molecular Weight:	374.27				
Target:	Potassium Channel				
Pathway:	Membrane Transporter/Ion Channel				
Storage:	Powder	-20°C	3 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.6719 mL	13.3593 mL	26.7187 mL	
	5 mM	0.5344 mL	2.6719 mL	5.3437 mL	
	10 mM	0.2672 mL	1.3359 mL	2.6719 mL	
	Please refer to the so	ubility information to select the app	propriate solvent.		

BIOLOGICAL ACTIVITY			
Description	ML67-33 is a selective activator of temperature- and mechano-sensitive K _{2P} channels. ML67-33 rapidly and reversibly affects K _{2P} 2.1 (TREK-1) with EC ₅₀ s of 36.3 μM and 9.7 μM in cell-free and HEK293 cells, respectively ^[1] .		
IC ₅₀ & Target	EC50: 36.3 μM (K _{2P} 2.1 (TREK-1)), 9.7 μM (K _{2P} 2.1 (TREK-1), in HEK293 cells) ^[1] .		
In Vitro	ML67-33 activates K2P channels and mutants with EC ₅₀ s of 21.8±1.3 μM, 49.4±1.1 μM, 30.2±1.4 μM, and 27.3±1.2 μM for K _{2P} 2.1 (TREK-1) W275S, K _{2P} 2.1 (TREK-1)-3G, K _{2P} 10.1 (TREK-2), K _{2P} 4.1 (TRAAK), respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

Product Data Sheet

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N=N

CI

CI

[1]. Bagriantsev SN, et al. A high-throughput functional screen identifies small molecule regulators of temperature- and mechano-sensitive K_{2P} channels. ACS Chem Biol. 2013 Aug 16;8(8):1841-51.

Caution: Product has not been fully validated for medical applications. For research use only.

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