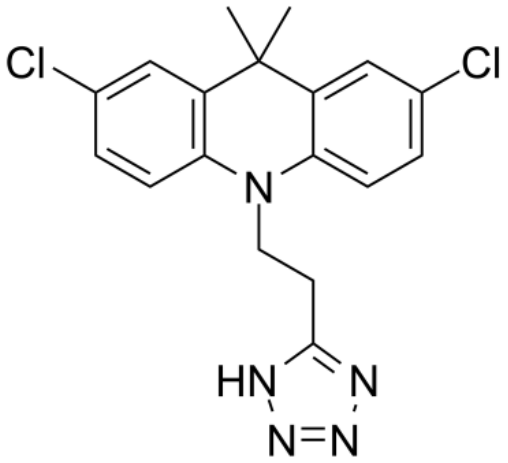
Product Data Sheet

Product Name: ML67-33
Cat. No.: GC38555

Chemical Properties

Cas. No.	1443290-89-8		
SMILES	CC1(C)C2=C(C=CC(Cl)=C2)N(CCC3=NN=NN3)C4=CC=C(Cl)C=C14		
Formula	$C_{18}H_{17}Cl_2N_5$	M.Wt	374.27
Solubility	DMSO : 100 mg/mL (267.19 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

ML67-33 is a selective activator of temperature- and mechano-sensitive K2P channels. ML67-33 rapidly and reversibly affects K2P2.1 (TREK-1) with EC50s of 36.3 μM and 9.7 μM in cell-free and HEK293 cells, respectively[1].

ML67-33 activates K2P channels and mutants with EC50s of 21.8±1.3 μM, 49.4±1.1 μM, 30.2±1.4 μM, and 27.3±1.2 μM for K2P2.1 (TREK-1) W275S, K2P2.1 (TREK-1)-3G, K2P10.1 (TREK-2),

K2P4.1 (TRAAK), respectively[1].

[1]. Bagriantsev SN, et al. A high-throughput functional screen identifies small molecule regulators of temperature- and mechano-sensitive K2P 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.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA