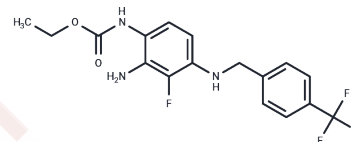


RL648_81

Chemical Properties

CAS No. : 1919050-87-5
 Formula: C17H17F4N3O2
 Molecular Weight: 371.33
 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	RL648_81 is a selective activator of KCNQ2/3 channels (EC50 = 190 nM). RL648_81 can be used in studies about neuronal hyperexcitability neurologic disorders.
Targets(IC50)	Potassium Channel

Solubility Information

Solubility	DMSO: 27.5 mg/mL (74.06 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (5.39 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.693 mL	13.4651 mL	26.9302 mL
5 mM	0.5386 mL	2.693 mL	5.386 mL
10 mM	0.2693 mL	1.3465 mL	2.693 mL
50 mM	0.0539 mL	0.2693 mL	0.5386 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

Kumar M, et al. Synthesis and Evaluation of Potent KCNQ2/3-Specific Channel Activators. Mol Pharmacol. 2016 Jun; 89(6):667-77.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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