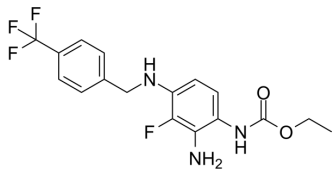
RL648_81

Cat. No.:	HY-123264
CAS No.:	1919050-87-5
Molecular Formula:	$C_{17}H_{17}F_4N_3O_2$
Molecular Weight:	371.33
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (269.30 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6930 mL	13.4651 mL	26.9302 mL
	5 mM	0.5386 mL	2.6930 mL	5.3860 mL
	10 mM	0.2693 mL	1.3465 mL	2.6930 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.73 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

RL648_81 is a specific KQT-like subfamily 2/3 (KCNQ2/3) activator with an EC_{50} of 190 nM. RL648_81 robustly shifts the V1/2 of KCNQ2/3 channels towards hyperpolarized potentials.RL648_81 does not shift the V1/2 of either KCNQ4 or KCNQ5.RL648_81 has the potential for neurologic disorders associated with neuronal hyperexcitability research[1].

REFERENCES

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

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

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