
Product Data Sheet

Product Name: RL648_81

Cat. No.: GC69820

Chemical Properties

Cas. No. 1919050-87-5

Formula $C_{17}H_{17}F_4N_3O_2$

M.Wt 371.33

Solubility DMSO : 100 mg/mL (269.30 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

RL648_81 is a specific **KQT-like subfamily 2/3 (KCNQ2/3)** activator with an **EC₅₀** of 190 nM. RL648_81 robustly shifts the V_{1/2} of KCNQ2/3 channels towards per polarized potentials. RL648_81 does not shift the V_{1/2} of either KCNQ4 or KCNQ5. RL648_81 has the potential for neurologic disorders associated with neuronal perexcitability research^[1].

[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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