
Product Data Sheet

Product Name: QO 58
Cat. No.: GC50095

Chemical Properties

Cas. No. 1259536-62-3

SMILES O=C1C=C(C4=CC(F)=C(Cl)N=C4Cl)NC2=C(C3=CC=CC=C3)C(C(F)(F)F)=NN12

Formula $C_{18}H_8Cl_2F_4N_4O$ M.Wt 443.18

Solubility DMSO : ≥ 62.5 mg/mL (141.03 mM) Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

Kv7 channel opener (EC50 values are 0.6, 1.0, 5.2 and 7.0 μM for Kv7.4, Kv7.2, Kv7.3/7.5 and Kv7.1, respectively). Increases the pain threshold of neuropathic pain in a sciatic nerve CCI in vivo model.

Zhang et al (2013) Modulation of Kv7 potassium channels by a novel opener pyrazolo[1,5-a]pyrimidin-7(4H)-one compound QO-58. Br.J.Pharmacol. 168 1030 PMID:23013484 | Qi et al (2011) Design, synthesis and biological activity of pyrazolo[1,5-a]pyrimidin-7(4H)-ones as novel Kv7/KCNQ potassium channel activators. Eur.J.Med.Chem. 46 934 PMID:21296466

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

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