

ICA-069673

Catalog No: tcsc6397



Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

582323-16-8

Formula:

$C_{11}H_6ClF_2N_3O$

Pathway:

Membrane Transporter/Ion Channel

Target:

Potassium Channel

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 34 mg/mL (126.10 mM)

Observed Molecular Weight:

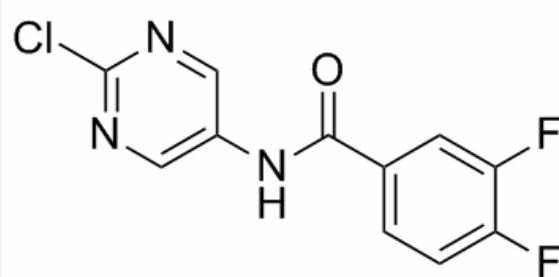
269.63

Product Description

ICA-069673 is a **KCNQ2/Q3** potassium channel activator with an **IC₅₀** of 0.69 μ M.

IC50 & Target: IC50: 0.69 μ M (KCNQ2/Q3 potassium channel)^[1]

In Vitro: ICA-069673 is found to be 20-fold selective for KCNQ2/Q3 over KCNQ3/Q5 and has no measurable activity against a panel of cardiac ion channels (IC₅₀ values > 30 μ M for hERG, Nav1.5, L type channels, and KCNQ1) as well as no activity on GABA(A) gated channels at 10 μ M^[1]. ICA-069673 exhibits much stronger effects on KCNQ2 channels, including a large hyperpolarizing shift of the voltage-dependence of activation, an 2-fold enhancement of peak current and pronounced subtype specificity for KCNQ2 over KCNQ3. Based on ICA73 sensitivity of chimeric constructs of the transmembrane segments of KCNQ2 and KCNQ3, this drug appears to interact with the KCNQ2 voltage sensor (S1-S4)^[2].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!