

Product Data Sheet

Product Name: ICA-27243

Cat. No.: GC39293

Chemical Properties

Cas. No. 325457-89-4

SMILES O=C(C1=CC=C(C(F)=C1)F)NC2=CC=C(N=C2)Cl

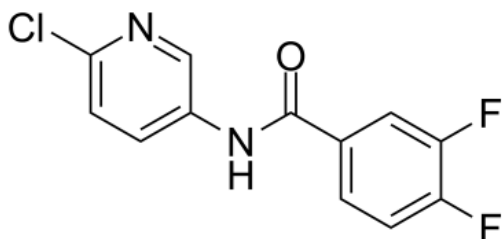
Formula $C_{12}H_7ClF_2N_2O$ M.Wt 268.65

Solubility DMSO: 250 mg/mL (930.58 mM) 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

ICA-27243 is a selective, potent and orally active KCNQ2/Q3 potassium channel opener with an EC₅₀ of 0.38 μM. ICA-27243 is less effective at activating KCNQ4 and KCNQ3/Q5. ICA-27243 has antiepileptic and anticonvulsant effects[1][2].

[1]. Wickenden AD, et al. N-(6-chloro-pyridin-3-yl)-3,4-difluoro-benzamide (ICA-27243): a novel, selective KCNQ2/Q3 potassium channel activator. Mol Pharmacol. 2008 Mar;73(3):977-86. [2]. Amato G, et al. N-Pyridyl and Pyrimidine Benzamides as KCNQ2/Q3 Potassium Channel Openers

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

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for the Treatment of Epilepsy. ACS Med Chem Lett. 2011 Mar 31;2(6):481-4.

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