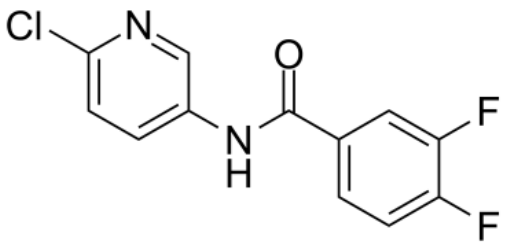
Product Data Sheet

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

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