Data Sheet (Cat.No.T13714L)

TargetMol

GRK2-IN-1 hydrochloride (2055990-90-2 free base)

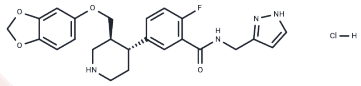
Chemical Properties

CAS No. :

Formula: C24H26ClFN4O4

Molecular Weight: 488.94

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	GRKs-IN-1 hydrochloride has remarkable potency against and selectivity for G protein-coupled receptor kinase 2 GRK2 (IC50: 130 nM) and GRK5 (IC50: 7.1 μM).
Targets(IC50)	GRK
In vitro	GRKs-IN-1 hydrochloride (Compound 14as) is a derivative 14as of paroxetine, shows a 100-fold improvement in cardiomyocyte contractility assays over paroxetine.

Solubility Information

Solubility	DMSO: 250 mg/mL (511.31 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0452 mL	10.2262 mL	20.4524 mL
5 mM	0.409 mL	2.0452 mL	4.0905 mL
10 mM	0.2045 mL	1.0226 mL	2.0452 mL
50 mM	0.0409 mL	0.2045 mL	0.409 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Waldschmidt HV, et al. Structure-Based Design of Highly Selective and Potent G Protein-Coupled Receptor Kinase 2Inhibitors Based on Paroxetine. J Med Chem. 2017 Apr 13;60(7):3052-3069.

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