
Product Data Sheet

Product Name: GRK2-IN-1 hydrochloride

Cat. No.: GC38396

Chemical Properties

Cas. No.

SMILES FC1=C(C(NCC2=NNC=C2)=O)C=C([C@H]3[C@H](COC4=CC=C(OCO5)C5=C4)CNCC3)C=C1.[H]Cl

Formula $C_{24}H_{26}ClFN_4O_4$ M.Wt 488.94

Solubility DMSO: 250 mg/mL (511.31 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**

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

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

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

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