

ZK824859 hydrochloride (2271122-53-1 free base)

Chemical Properties

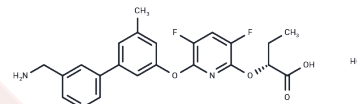
CAS No. :

Formula: C₂₃H₂₃ClF₂N₂O₄

Molecular Weight: 464.89

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	ZK824859 hydrochloride is an oral available and selective inhibitor of urokinase plasminogen activator (uPA)(IC ₅₀ s of 79 nM, 1580 nM and 1330 nM for human uPA, tPA, and plasmin, respectively).
Targets(IC ₅₀)	Others
In vitro	ZK824859 is 5 fold less potent and has lost selectivity in mouse: uPA with IC ₅₀ of 410? nM; tPA with IC ₅₀ of 910?nM; plasmin with IC ₅₀ of 1600?nM compared to human IC ₅₀ of 79?nM, 1580?nM and 1330?nM respectively.

Solubility Information

Solubility	DMSO: 125 mg/mL (268.88 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.151 mL	10.7552 mL	21.5105 mL
5 mM	0.4302 mL	2.151 mL	4.3021 mL
10 mM	0.2151 mL	1.0755 mL	2.151 mL
50 mM	0.043 mL	0.2151 mL	0.4302 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

Islam I, et al. Discovery of selective urokinase plasminogen activator (uPA) inhibitors as a potential treatment for multiple sclerosis. Bioorg Med Chem Lett. 2018 Nov 1;28(20):3372-3375.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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