

AZ12971554

Chemical Properties

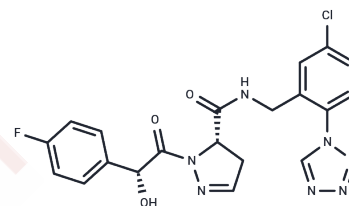
CAS No. :

Formula: C₂₀H₁₇ClFN₇O₃

Molecular Weight: 457.85

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	AZ12971554 is a potent inhibitor of human thrombin. $K_i = 0.3\text{nM}$, Activated partial thromboplastin time (APTT) $IC_{50} = 0.68\mu\text{M}$, Ecarin clotting time (ECT) $IC_{50} = 0.16\mu\text{M}$ in human plasma.
Targets(IC_{50})	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1841 mL	10.9206 mL	21.8412 mL
5 mM	0.4368 mL	2.1841 mL	4.3682 mL
10 mM	0.2184 mL	1.0921 mL	2.1841 mL
50 mM	0.0437 mL	0.2184 mL	0.4368 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

Karlsson S, Branalt J, Halvarsson MO, Bergman J. (2014) A One-Pot Asymmetric Synthesis of a N Acylated 4,5-Dihydropyrazole, A Key Intermediate of Thrombin Inhibitor AZD8165. Organic Process Research and Development, 18: 969-975.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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