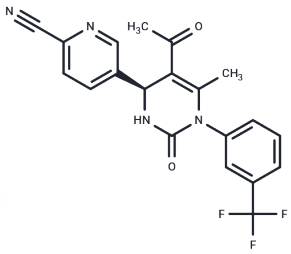
Data Sheet (Cat.No.T10473L)

TargetMol

BAY-677

Chemical Properties



CAS No. : 2117404-84-7

Formula: C20H15F3N4O2

Molecular Weight: 400.35

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	BAY-677, serving as an inactive control for BAY-678, is distinguished by BAY-678's capabilities as an orally bioavailable, selective, and cell-permeable inhibitor of human neutrophil elastase (HNE), showcasing a high potency with an IC50 of 20 nM[1]. Furthermore, BAY-678 has been publicly nominated as a chemical probe by the Structural Genomics Consortium (SGC)[2].
Targets(IC50)	Others,Serine Protease

Solubility Information

Solubility	DMSO: 50 mg/mL (124.89 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4978 mL	12.4891 mL	24.9781 mL
5 mM	0.4996 mL	2.4978 mL	4.9956 mL
10 mM	0.2498 mL	1.2489 mL	2.4978 mL
50 mM	0.050 mL	0.2498 mL	0.4996 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

von Nussbaum F, et al. Freezing the Bioactive Conformation to Boost Potency: The Identification of BAY 85-8501, a Selective and Potent Inhibitor of Human Neutrophil Elastase for Pulmonary Diseases. ChemMedChem. 2015 Jul;10 (7):1163-73..

von Nussbaum F, et al. Neutrophil elastase inhibitors for the treatment of (cardio)pulmonary diseases: Into clinical testing with pre-adaptive pharmacophores. Bioorg Med Chem Lett. 2015 Oct 15;25(20):4370-81.

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