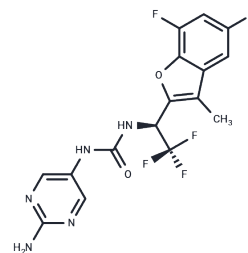


(S)-STX-478

Chemical Properties

CAS No. : 2883540-91-6
 Formula: C₁₆H₁₂F₅N₅O₂
 Molecular Weight: 401.29
 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	(S)-STX-478 is the S isomer of STX-478. STX-478 is a PI3K α inhibitor that crosses the blood-brain barrier with oral activity, has anti-cancer properties, and inhibits tumor growth. It is suitable for studying breast cancer and other cancers.
Targets(IC50)	Others,PI3K
In vitro	STX-478 is a potent and selective inhibitor of all kinase domain mutant forms of PI3K α found in cancer, with KD and IC50 values of H1047R and WT PI3K α = 4.7 nmol/L (KD), respectively. 9.4 nmol/L (IC50) and 70 nmol/L (KD) 131 nmol/L (IC50). [1]
In vivo	Treatment with STX-478 (100 mg/kg) produced powerful antitumor efficacy against PI3K α mutant tumors in mice without metabolic dysregulation. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (199.36 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	2.492 mL	12.4598 mL	24.9196 mL
5 mM	0.4984 mL	2.492 mL	4.9839 mL
10 mM	0.2492 mL	1.246 mL	2.492 mL
50 mM	0.0498 mL	0.2492 mL	0.4984 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

Buckbinder L, et al. STX-478, a Mutant-Selective, Allosteric PI3K α Inhibitor Spares Metabolic Dysfunction and Improves Therapeutic Response in PI3K α -Mutant Xenografts. *Cancer Discov.* 2023 Nov 1;13(11):2432-2447.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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