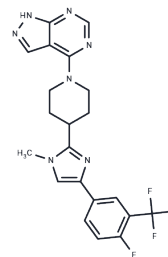


LY-2584702 free base

Chemical Properties

CAS No. : 1082949-67-4
Formula: C₂₁H₁₉F₄N₇
Molecular Weight: 445.42
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	LY2584702 is a selective, ATP-competitive p70S6K inhibitor(IC ₅₀ : 4 nM).
Targets(IC ₅₀)	mTOR,S6 Kinase
In vitro	In HCT116 colon cancer cells, LY2584702 inhibits phosphorylation of the S6 ribosomal protein (pS6) with IC ₅₀ of 0.1-0.24 μM[1]. Combined with EGFR inhibitor erlotinib or with the mTOR inhibitor everolimus, LY2584702 has significant synergistic effects [2].
In vivo	LY2584702 (12.5 mg/kg BID), shows significant antitumor activity in both U87MG glioblastoma and HCT116 colon carcinoma xenograft models. [1]

Solubility Information

Solubility	DMSO: 1 mg/mL (2.24 mM),Heating 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	2.2451 mL	11.2254 mL	22.4507 mL
5 mM	0.449 mL	2.2451 mL	4.4901 mL
10 mM	0.2245 mL	1.1225 mL	2.2451 mL
50 mM	0.0449 mL	0.2245 mL	0.449 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.

Reference

Hollebecque A, Houédé N, Cohen EE, Massard C, Italiano A, Westwood P, Bumgardner W, Miller J, Brail LH, Benhadji KA, Soria JC. A phase Ib trial of LY2584702 tosylate, a p70 S6 inhibitor, in combination with erlotinib or everolimus in patients with solid tumours. Eur J Cancer. 2014 Mar;50(5):876-84. doi: 10.1016/j.ejca.2013.12.006. Epub 2014 Jan 20.

Hollebecque A, Houédé N, Cohen EE, et al. A phase Ib trial of LY2584702 tosylate, a p70 S6 inhibitor, in combination with erlotinib or everolimus in patients with solid tumours.[J]. European Journal of Cancer, 2014, 50 (5):876-884.

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