

Product Data Sheet

LY2584702

Cat. No.:	B5815
CAS No.:	1082949-67-4
Formula:	C ₂₁ H ₁₉ F ₄ N ₇
M.Wt:	445.42
Synonyms:	
Target:	PI3K/Akt/mTOR Signaling
Pathway:	S6 Kinase
Storage:	Store at -20°C



Solvent & Solubility

≥22.25 mg/mL in DMSO; insoluble in H₂O; insoluble in EtOH

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	2.2451 mL	11.2254 mL	22.4507 mL
	5 mM	0.4490 mL	2.2451 mL	4.4901 mL
	10 mM	0.2245 mL	1.1225 mL	2.2451 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

p70 S6 kinase inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	HCT116 colon cancer cells
Preparation method:	The solubility of this compound in DMSO is >22.3mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	N/A

	Applications:	In HCT116 colon cancer cells, LY2584702 inhibited phosphorylation of the S6 ribosomal protein (pS6) with an IC50 of 0.1-0.24 uM.
In Vivo	Animal experiment	
	Animal models:	U87MG glioblastoma and HCT116 colon carcinoma xenograft models
	Dosage form:	2.5 mg/kg twice daily (BID) and 12.5 mg/kg BID
	Applications:	In both U87MG glioblastoma and HCT116 colon carcinoma xenograft models, LY2584702 exhibited significant single-agent efficacy.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Tolcher A, Goldman J, Patnaik A, et al. A phase I trial of LY2584702 tosylate, a p70 S6 kinase inhibitor, in patients with advanced solid tumours. Eur J Cancer, 2014, 50(5): 867-875.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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