

Product Name: Temsirolimus Revision Date: 11/01/2023

Product Data Sheet

Temsirolimus

Cat. No.: A8314

CAS No.: 162635-04-3
Formula: C56H87NO16

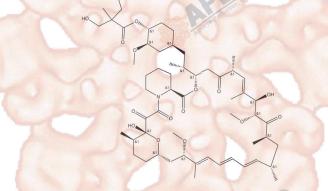
M.Wt: 1030.29

Synonyms: Torisel;CCI-779;CCI 779;CCI779

Target: PI3K/Akt/mTOR Signaling

Pathway: mTOR

Storage: Store at -20°C



Solvent & Solubility

≶51.5mg/mL in DMSO, ≥11.2 mg/mL in EtOH,insoluble in H2O

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	0.9706 mL	4.8530 mL	9.7060 mL
	5 mM	0.1941 mL	0.9706 mL	1.9412 mL
	10 mM	0.0971 mL	0.4853 mL	0.9706 mL

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

Biological Activity

Shortsummary	MTOR inhibitor	MTOR inhibitor		
IC ₅₀ & Target	1.76 μM (mTOR)			
In Vitro	Cell Viability Assay			
	Cell Line:	PC-3 and DU145 cells		
	Preparation method:	The solubility of this compound in DMSO is >10 mM. 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:	100 nM, 3 days		
	Applications:	The growth and colony-formation of both cell lines were inhibited in a		

		concentration-dependent manner by CCI-779. Following a 3-day exposure to	
		100 nmol/L CCI-779, the numbers of colony-forming PC-3 and DU145 cells	
		were 0.18 \pm 0.09 and 0.37 \pm 0.03, respectively, compared with controls.	
	Animal experiment		
	Animal models:	Nude mice bearing DAOY xenografts	
	Dosage form:	Intraperitoneal injection, 20 mg/kg, daily 3 5 for 1, 2 or 4 weeks or 100 mg/kg on	
	Contribute ind	days 1 and 12	
	Applications:	CCI-779 administered at 20 mg/kg 5 days/week for 1 and 2 weeks yielded 1.6-	
		and 2.4-fold delayed tumor growth. Time to reach 5-fold tumor volume was	
		significantly greater in animals treated for 1 week or 2 weeks compared with	
In Vivo		control animals. Retreatment of large tumors with CCI-779 for 2 weeks (20	
		mg/kg i.p. 5 days/week on days 29 to 42) restored growth inhibition but did not	
		yield tumor regression. Treatment with CCI-779 (20 mg/kg i.p.) 5 days/week for	
		4 weeks delayed time to reach 5-fold pretreatment volume by 174% compared	
	40.	with controls.	
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may	
	P Entropod v	slightly differ with the theoretical value. This is caused by an experimental	
	Achieve Porte	system error and it is normal.	

Product Citations

See more customer validations on www.apexbt.com.

References

[1] Wu L, Birle D C, Tannock I F. Effects of the mammalian target of rapamycin inhibitor CCI-779 used alone or with chemotherapy on human prostate cancer cells and xenografts. Cancer research, 2005, 65(7): 2825-2831.

[2] Geoerger B, Kerr K, Tang C B, et al. Antitumor activity of the rapamycin analog CCI-779 in human primitive neuroectodermal tumor/medulloblastoma models as single agent and in combination chemotherapy[J]. Cancer research, 2001, 61(4): 1527-1532.

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 APExBIO 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.

APExBIO Technology

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