

Product Name: RO4929097 Revision Date: 01/10/2021

Product Data Sheet

RO4929097

Cat. No.: A4005

CAS No.: 847925-91-1

Formula: C22H20F5N3O3

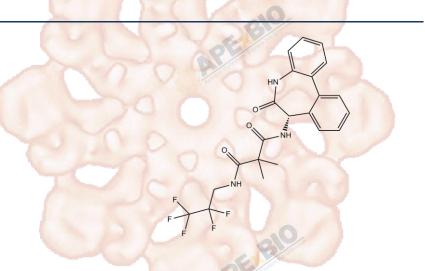
M.Wt: 469.4

Synonyms:

Target: Proteases

Pathway: Gamma Secretase

Storage: Store at -20°C



Solvent & Solubility

 \geqslant 23.47 mg/mL in DMSO; insoluble in H2O; \geqslant 45.2 mg/mL in EtOH with ultrasonic

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	2.1304 mL	10.6519 mL	21.3038 mL
	5 mM	0.4261 mL	2.1304 mL	4.2608 mL
	10 mM	0.2130 mL	1.0652 mL	2.1304 mL

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

Biological Activity

Shortsummary	γ secretase inhibitor		
IC ₅₀ & Target	4 nM (γ secretase), 14 nM (Aβ40), 5 nM (ICN)		
	Cell Viability Assay		
	Cell Line:	SUM190 and SUM149 cells	
	Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining	
In Vitro		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:	1 μM, 14 days for 2D cultures 7 days for 3D cultures	

	Applications:	After treating with increasing doses of ionizing radiation in the presence or			
		absence of the drug, 2D colonies were allowed to grow for 10-14 days, while			
		the mammospheres were permitted to grow for 1 week. At 1 μ M, RO4929097			
		was able to sensitize adherent cells to radiation with a more significant effect			
	APE BIO	seen in SUM190 than in SUM149 cells. However, the same dose of inhibitor			
		radioprotected cells grown under conditions that favor the enrichment of the			
		cancer stem cells at higher doses of ionizing radiation. This discrepancy			
		between 2D and 3D cultures suggested that cell contact may be needed for a			
		Notch inhibitor to have a significant effect.			
	Animal experiment				
In Vivo	Animal models:	NOD/SCID/IL2gammaR-/- (NOG) mice injected with WM3248 cells			
	Dosage form:	Oral administration, 10 mg/Kg/day for 30 days			
	Applications:	There was a decrease in tumor growth with RO4929097 treatment, which was			
		more appreciable after tumors were extracted for weight assessment.			
	APE, BIO	RO4929097-treated tumors also displayed lower expression of putative			
		melanoma stem cell markers CD166, CD271 and JARID1B compared to			
		vehicle-treated ones.			
	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

1. Frank SB, Berger PL, et al. "Human prostate luminal cell differentiation requires NOTCH3 induction by p38-MAPK and MYC." J Cell Sci. 2017 Jun 1;130(11):1952-1964.PMID:28446540

See more customer validations on www.apexbt.com.

References

[1] Debeb B G, Cohen E N, Boley K, et al. Pre-clinical studies of Notch signaling inhibitor RO4929097 in inflammatory breast cancer cells. Breast cancer research and treatment, 2012, 134(2): 495-510.

[2] Huynh C, Poliseno L, Segura M F, et al. The novel gamma secretase inhibitor RO4929097 reduces the tumor initiating potential of melanoma. PloS one, 2011, 6(9): e25264.

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.





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