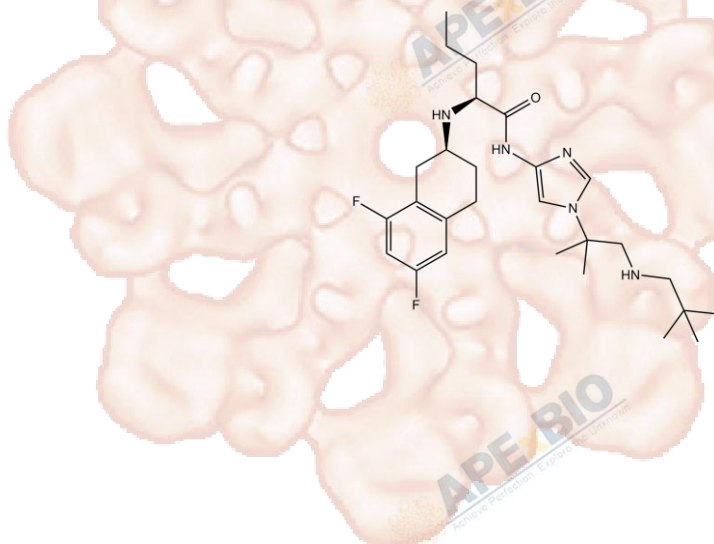


Product Data Sheet

PF-03084014

Cat. No.:	A3711
CAS No.:	865773-15-5
Formula:	C ₂₇ H ₄₁ F ₂ N ₅ O
M.Wt:	489.64
Synonyms:	PF 03084014; PF03084014
Target:	Proteases
Pathway:	Gamma Secretase
Storage:	Store at -20°C



Solvent & Solubility

≥ 19.8 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	2.0423 mL	10.2116 mL	20.4232 mL
	5 mM	0.4085 mL	2.0423 mL	4.0846 mL
	10 mM	0.2042 mL	1.0212 mL	2.0423 mL

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

Biological Activity

Shortsummary

γ-secretase inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	Human T-ALL cell lines HPB-ALL
Preparation method:	This compound is soluble in DMSO. 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:	~ 1 μM; 7 days

	Applications:	In HPB-ALL cells, PF-03084014 inhibited cell growth through induction of cell cycle arrest and apoptosis.
In Vivo	Animal experiment	
	Animal models:	HPB-ALL xenograft mouse models
	Dosage form:	75 and 150 mg/kg; p.o.; b.i.d., for 14 days
	Applications:	In HPB-ALL models, PF-03084014 showed robust antitumor activity on 14-day twice daily dosing. PF-03084014 dose-dependently inhibited tumor growth, with a maximal tumor growth inhibition of ~ 92% at the dosage of 150 mg/kg.
	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]. Li YM, Lai MT, Xu M, Huang Q, DiMuzio-Mower J, Sardana MK, Shi XP, Yin KC, Shafer JA, Gardell SJ. Presenilin 1 is linked with gamma-secretase activity in the detergent solubilized state. Proc Natl Acad Sci U S A. 2000 May 23;97(11):6138-43.

[2]. Wei P, Walls M, Qiu M, et al. Evaluation of selective γ -secretase inhibitor PF-03084014 for its antitumor efficacy and gastrointestinal safety to guide optimal clinical trial design. Molecular cancer therapeutics, 2010, 9(6): 1618-1628.

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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