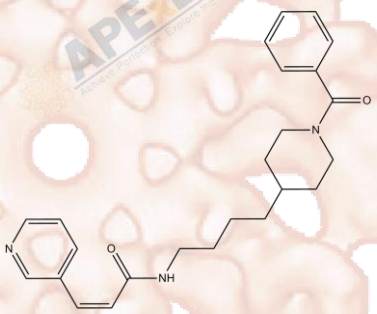
Product Data Sheet

FK866 (APO866)



Cat. No.:	A4381
CAS No.:	658084-64-1
Formula:	C24H29N3O2
M.Wt:	391.51
Synonyms:	
Target:	Metabolism
Pathway:	Transferase
Storage:	Store at -20°C

Solvent & Solubility

In Vitro

insoluble in H2O; ⩾19.6 mg/mL in DMSO; ⩾49.6 mg/mL in EtOH

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	2.5542 mL	12.7711 mL	25.5421 mL
5 mM	0.5108 mL	2.5542 mL	5.1084 mL
10 mM	0.2554 mL	1.2771 mL	2.5542 mL

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

Biological Activity

Shortsummary	NAMPT inhibitor, non-competitive, highly specific
IC_{50} & Target	0.4 nM (Ki) (NAMPT)

In Vitro

Cell Viability Assay

Cell Line:	41 hematologic malignant cell lines
Preparation method:	The solubility of this compound in DMSO is limited. 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:	0 ~ 10 nM; 72 or 96 hrs

	Applications:	In various hematologic cancer cells, APO866 (0 ~ 10 nM) dose-dependently induced depletion of intracellular NAD and ATP contents and cell death.
In Vivo	**Animal experiment**	
	Animal models:	C.B.-17 SCID mice xenograft models of human AML, lymphoblastic lymphoma and leukemia
	Dosage form:	20 mg/kg; i.p.; twice daily for 4 days, repeated weekly 3 times
	Applications:	In C.B.-17 SCID mice xenograft models of human AML, lymphoblastic lymphoma and leukemia, APO866 prevented and abrogated tumor growth.
	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. Shi KL, Qian JY, et al. "Atorvastatin antagonizes the visfatin-induced expression of inflammatory mediators via the upregulation of NF-κB activation in HCAECs." Oncol Lett. 2016 Aug;12(2):1438-1444.PMID:27446449

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References

[1]. Nahimana A, Attinger A, Aubry D, Greaney P, Ireson C, Thougaard AV, Tj?rnelund J, Dawson KM, Dupuis M, Duchosal MA. The NAD biosynthesis inhibitor APO866 has potent antitumor activity against hematologic malignancies. Blood. 2009 Apr 2;113(14):3276-86.

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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