

Product Name: Nilotinib(AMN-107) Revision Date: 09/23/2024

Product Data Sheet

Nilotinib(AMN-107)

Cat. No.: A8232

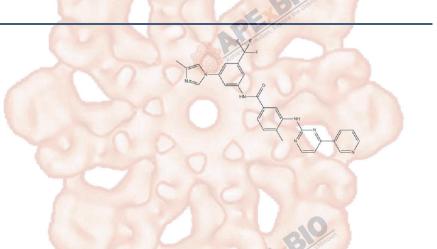
CAS No.: 641571-10-0 **Formula:** C28H22F3N7O

M.Wt: 529.53

Synonyms: AMN-107; Tasigna; AMN107 Target: TGF- β / Smad Signaling

Pathway: Bcr-Abl

Storage: Store at -20°C



Solvent & Solubility

≥26.5 mg/mL in DMSO; insoluble in H2O; ≥5 mg/mL in EtOH with gentle warming and ultrasonic

In Vitro	Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
		1 mM	1.8885 mL	9.4423 mL	18.8847 mL
		5 mM	0.3777 mL	1.8885 mL	3.7769 mL
		10 mM	0.1888 mL	0.9 <mark>44</mark> 2 mL	1.8885 mL

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

Biological Activity

Shortsummary	Bcr-Abl kinase inhibitor,selective		
IC ₅₀ & Target	30 nM (Bcr-Abl)		
	Cell Viability Assay	The state of the s	
	Cell Line;	CD34+ cells from individual patients with CML	
	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:	5 μM, 16 hours	

	Applications:	After 16 hours in culture with nilotinib, long enough for inhibition of CrkL		
		phosphorylation but not for induction of apoptosis, the total CD34+ cell samples		
		studied exhibited only partial and variable inhibition (range, 49% to 0%		
		inhibition) of CrkL phosphorylation.		
	Animal experiment			
	Animal models:	C57BI/6J mice injected with 8093 lymphoma cells		
	Dosage form:	Oral administration, 75 mg/kg, daily		
	Applications:	Vehicle treated mice became moribund within 3 weeks of the transplanta		
		They showed clear symptoms of ALL. Nilotinib-treated mice lived statistically		
In Vivo		significantly longer as compared with the vehicle-treated mice. This result		
		clearly indicated that nilotinib was very effective in inhibiting the proliferation of		
		the leukemic cells in vivo.		
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may		
	40.	slightly differ with the theoretical value. This is caused by an experimental		
	the Unitrovin	system error and it is normal.		

Product Citations

1. Saebom Lee ,Sangjune Kim ,et al. "The c-Abl inhibitor, Radotinib HCl is neuroprotective in a preclinical Parkinson's disease mouse model." Human Molecular Genetics, ddy143.

See more customer validations on www.apexbt.com.

References

[1] Jørgensen H G, Allan E K, Jordanides N E, et al. Nilotinib exerts equipotent antiproliferative effects to imatinib and does not induce apoptosis in CD34+ CML cells. Blood, 2007, 109(9): 4016-4019.

[2] Kaur P, Feldhahn N, Zhang B, et al. Nilotinib treatment in mouse models of P190 Bcr/Abl lymphoblastic leukemia. Mol Cancer, 2007, 6(10): 67-77.

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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