

Product Name: Lenvatinib (E7080) Revision Date: 04/16/2024

Product Data Sheet

Lenvatinib (E7080)

Cat. No.: A2174

CAS No.: 417716-92-8

Formula: C21H19CIN4O4

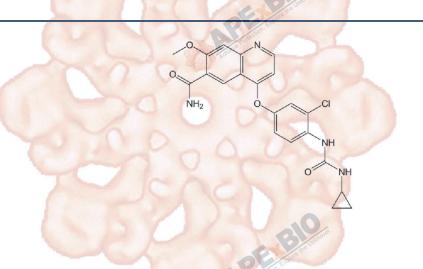
M.Wt: 426.85

Synonyms:

Target: Tyrosine Kinase

Pathway: VEGFR

Storage: Store at -20°C



Solvent & Solubility

≥21.35 mg/mL in DMSO; insoluble in EtOH; insoluble in H2O

In Vitro

	Mass			
Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	2.3427 mL	11.7137 mL	23.4274 mL
E la striction	5 mM	0.4685 mL	2.3427 mL	4.6855 mL
	10 mM	0.2343 mL	1.1714 mL	2.3427 mL

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

Biological Activity

Shortsummary	VEGFR inhibitor	VEGFR inhibitor			
IC ₅₀ & Target	22 nM (VEGFR-1), 4 nM (22 nM (VEGFR-1), 4 nM (VEGFR-2), 5.2 nM (VEGFR-3), 39 nM (PDGFRβ), 35 nM (RET)			
	Cell Viability Assay	Cell Viability Assay			
	Cell Line:	HUVECs And the second s			
	Preparation method:	The solubility of this compound in DMSO is > 21.4 mg/mL. General tips for			
In Vitro		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 μM; 72 hrs			
1 www.anayht.com					

	Applications:	In HUVECs stimulated with VEGF and VEGF-C, Lenvatinib strongly inhibited		
		VEGF-R2 and VEGF-R3 with the IC50 values of 0.83 nM and 0.36 nM,		
		respectively. In addition, E7080 showed stronger inhibitory activity against		
	Blogger .	VEGF-induced proliferation of HUVECs (IC50 = 2.7 nmol/L) than basic		
		FGF-induced proliferation of HUVECs (IC50 = 410 nM) and PDGF-induced		
	Expoeire	proliferation of L cells (IC50 = 340 nM).		
	Animal experiment	and the state of t		
	Animal models:	Nude mice bearing MDA-MB-231 cells		
	Dosage form:	form: 100 mg/kg; p.o.; q.d., for 8 weeks		
	Applications:	In nude mice bearing MDA-MB-231 cells, E7080 significantly inhibited tumor		
		growth, with a RTV value of 0.81 ± 1.00. E7080 also markedly inhibited		
In Vivo		metastasis to regional lymph nodes and distant lung. In addition, E7080		
		reduced angiogenesis and lymphangiogenesis within metastatic nodules in		
	40.	lymph nodes of MDA-MB-231 xenograft models.		
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may		
	Colon, Expare	slightly differ with the theoretical value. This is caused by an experimental		
	Litter Pert	system error and it is normal.		

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Matsui J, Funahashi Y, Uenaka T, Watanabe T, Tsuruoka A, Asada M. Multi-kinase inhibitor E7080 suppresses lymph node and lung metastases of human mammary breast tumor MDA-MB-231 via inhibition of vascular endothelial growth factor-receptor (VEGF-R) 2 and VEGF-R3 kinase. Clin Cancer Res. 2008 Sep 1;14(17):5459-65.

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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