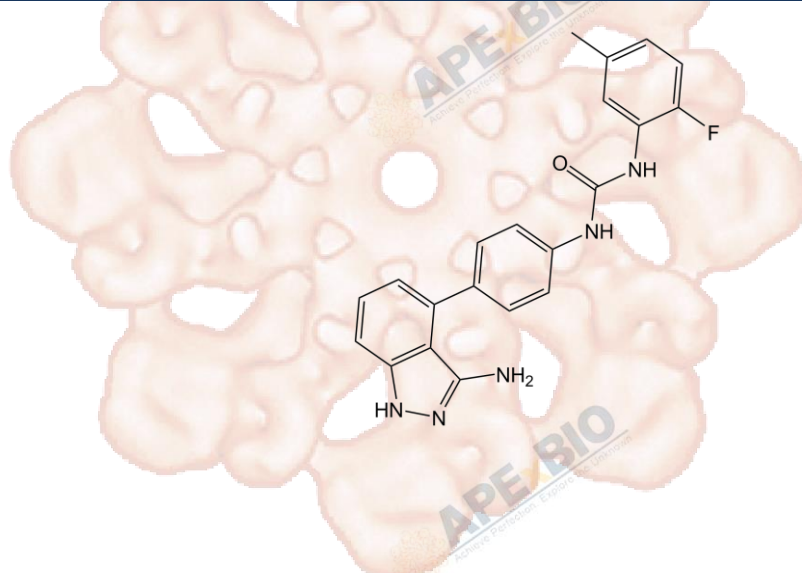


Product Data Sheet

Linifanib (ABT-869)

Cat. No.:	A2949
CAS No.:	796967-16-3
Formula:	C ₂₁ H ₁₈ FN ₅ O
M.Wt:	375.41
Synonyms:	
Target:	Tyrosine Kinase
Pathway:	VEGFR
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; insoluble in EtOH; ≥18.75 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	2.6638 mL	13.3188 mL	26.6375 mL
	5 mM	0.5328 mL	2.6638 mL	5.3275 mL
	10 mM	0.2664 mL	1.3319 mL	2.6638 mL

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

Biological Activity

Shortsummary

VEGFR/PDGFR inhibitor

IC₅₀ & Target

3 nM (VEGFR1/FLT1), 3 nM (CSF-1R), 4 nM (VEGFR2/KDR), 4 nM (FLT3), 14 nM (KIT)

In Vitro

Cell Viability Assay

Cell Line:	Ba/F3 FLT3 ITD mutant and WT cells
Preparation method:	The solubility of this compound in DMSO is > 10 mM. 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:	0.1 nM ~ 10 μM; 24 hrs

	Applications:	Linifanib was more effective at inhibiting cell growth in ITD mutant cells with the IC50 value of 0.55 nM. In addition, treatment with 10 nM of Linifanib induced apoptosis in ITD mutant cells, but showed no observable effect on WT cells.
In Vivo	Animal experiment	
	Animal models:	NOD/SCID mice with ITD mutant cells
	Dosage form:	0.2 mL/20 g; p.o.; q.d.
	Applications:	In NOD/SCID mice with ITD mutant cells, Linifanib decreased leukemia progression. On day 7, untreated mice exhibited rapid progression of ITD mutant cells, whilst mice treated with Linifanib showed no detectable disease. In addition, Linifanib significantly prolonged survival duration of Ba/F3 FLT3 ITD-injected mice.
	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

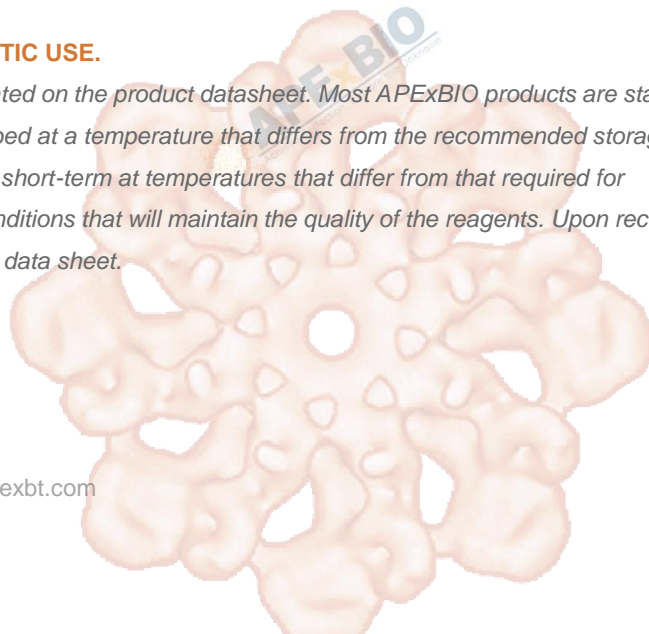
[1]. Jenny E. Hernandez-Davies, Joan P. Zape, Elliot M. Landaw, et al. The Multitargeted Receptor Tyrosine Kinase Inhibitor Linifanib (ABT-869) Induces Apoptosis through an Akt and Glycogen Synthase Kinase 3 β -Dependent Pathway. *Mol. Cancer Ther.*, 2011, 10(6):949-59.

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. Short-term 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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