ProbeChem®
Expedite Your Scientific Research

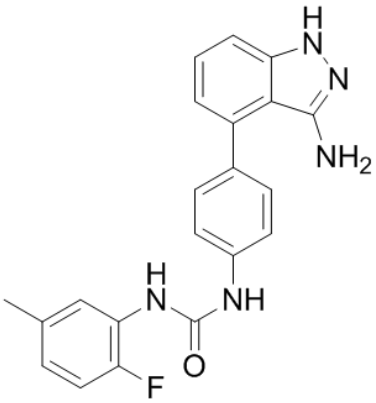
WWW.PROBECHEM.COM

Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Linifanib
Cat. No.	:	PC-45859
CAS No.	:	796967-16-3
Molecular Formula	:	$C_{21}H_{18}FN_5O$
Molecular Weight	:	375.3989
Target	:	VEGFR
Solubility	:	10 mM in DMSO

1. Dai Y, et al. ***J Med Chem***. 2007 Apr 5;50(7):1584-97.
2. Shankar DB, et al. ***Blood***. 2007 Apr 15;109(8):3400-8.
3. Albert DH, et al. ***Mol Cancer Ther***. 2006 Apr;5(4):995-1006.
4. Pierotti CL, et al. ***Biochem J***. 2023 Apr 28:BCJ20230035.



Biological Activity

Linifanib (ABT-869) is a potent multi-RTKs inhibitor of members of **VEGFR** and **PDGFR** families with IC50 of 4/3/3/14/4/66/190/170 nM for KDR/FLT1/CSF1R/KIT/FLT3/PDGFRβ/FLT4/Tie2, respectively.
Linifanib (ABT-869) shows much less active (IC50>10 uM) against other nonrelated tyrosine kinases, such as steroid receptor coactivator and EGFR.
Linifanib (ABT-869) inhibits RTK phosphorylation (IC50=2, 4, and 7 nM for PDGFRβ, KDR, and CSF-1R, respectively) and VEGF-stimulated proliferation (IC50=0.2 nM for human endothelial cells).
Linifanib (ABT-869) exhibits efficacy in human fibrosarcoma and breast, colon, and small cell lung carcinoma xenograft models (ED50=1.5-5 mg/kg, twice daily).
Linifanib (ABT-869) also is a small molecule inhibitor of necroptosis by targeting RIPK1 kinase

References

E-mail: tech@probechem.com