

Linifanib

SYN-1002

1-(4-(3-amino-1H-indazol-4-yl)phenyl)-3-(2-fluoro-5-methylphenyl)urea

CAS Registry No.: 796967-16-3

Smiles String:

Cc1ccc(c(c1)NC(=O)Nc2ccc(cc2)c3cccc4c3c[nH]4)N)F

Molecular Weight: 375.41

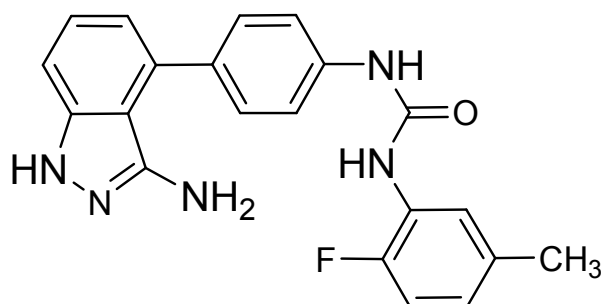
Molecular Formula: C₂₁H₁₈FN₅O

Lot Number: Refer to vial

¹H-NMR: Available on request

HPLC (Purity): > 95.0% @ 254 nm

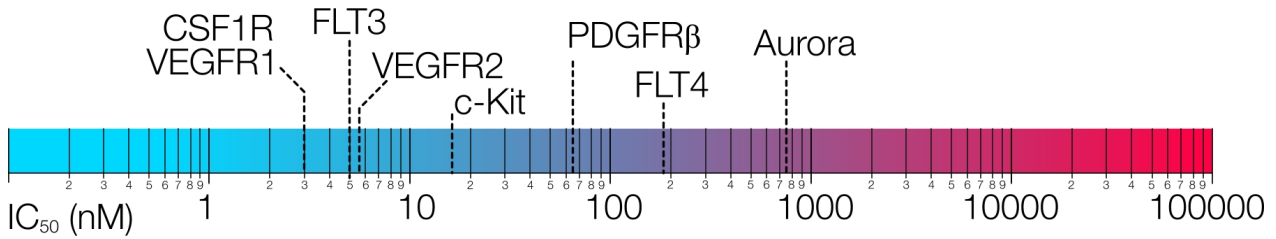
ES-MS: Available on request



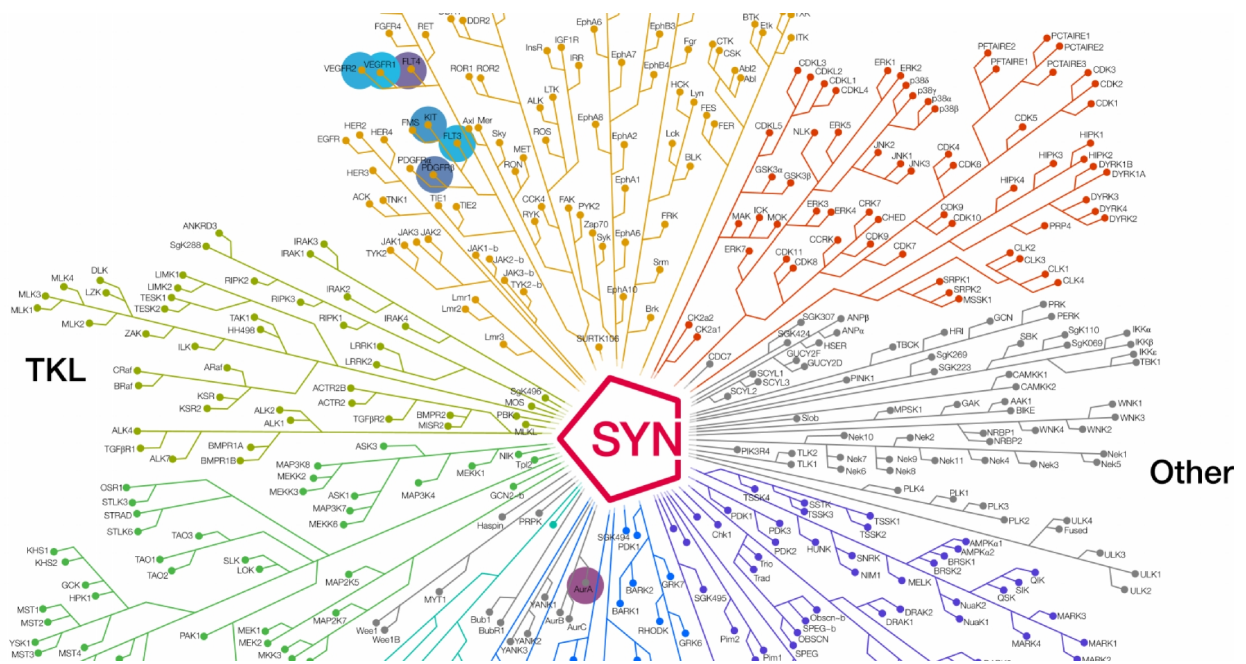
Description:

Linifanib (A 741439; A-741439; A741439; ABT-869; ABT869; RG3635) is an orally active multitargeted receptor tyrosine kinase inhibitor for the treatment of various cancers. The compound is designed to inhibit vascular endothelial growth factor and platelet-derived growth factor receptors and is a multitargeted tyrosine kinase receptor inhibitor that suppresses FLT3 signaling. It is in phase III development for liver cancer and phase II development for non-small cell lung cancer, breast cancer, and colorectal cancer in the US, the EU and other areas of the world. (PMID:20698720); Recent research also indicates that Linifanib inhibits proliferation and induces apoptosis in AML patient cells via reduction of AKT and GSK3beta phosphorylation and maybe influential in AML therapy. (PMID:21471285)

Biological Activity



Kinome Mapping



Shipping and Storage Temperature

Shipping:

Ambient

Storage:

2 years -20C, Powder 1 month, -4C in DMSO, More than one month -80C in DMSO

Solubility

DMSO 75mg/mL, Ethanol 5mg/mL

Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.3754	3.7540	7.5080	18.7700

References

1. Dai Y , Hartandi K , Ji Z , Ahmed AA , Albert DH , Bauch JL , Bouska JJ , Bousquet PF , Cunha GA , Glaser KB , Harris CM , Hickman D , Guo J , Li J , Marcotte PA , Marsh KC , Moskey MD , Martin RL , Olson AM , Osterling DJ , Pease LJ , Soni NB , Stewart KD , Stoll VS , Tapang P , Reuter DR , Davidsen SK , Michaelides MR . Discovery of N-(4-(3-amino-1H-indazol-4-yl)phenyl)-N'-(2-fluoro-5-methylphenyl)urea (ABT-869), a 3-aminoindazole-based orally active multitargeted receptor tyrosine kinase inhibitor. J Med Chem. 2007 Apr 5;50(7):1584-97. Epub 2007 Mar 8.

Ordering Information

To order more of this or any other SYNkinase compound, go to synkinase.com, Call us Toll Free (US Only) at 1- 877-854-6273 or email orders@synkinase.com.

Product Datasheet (Rev. 1.1)