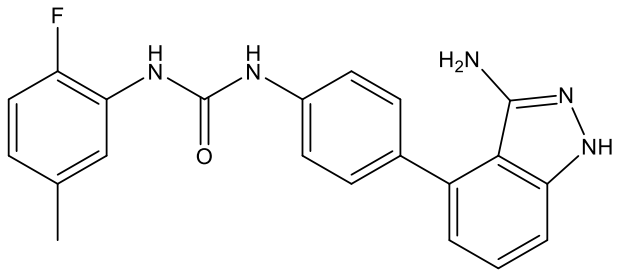
Catalog # 10-5268

ABT-869

CAS# 796967-16-3

1-(4-(3-Amino-1H-indazol-4-yl)phenyl)-3-(2-fluoro-5-methylphenyl)urea; Linifanib

Lot # R110643



A structurally novel, potent inhibitor of receptor tyrosine kinases inhibiting VEGFR and PDGFR and related kinases with IC_{50}s= 3, 4, 4, 66, 3 and 14 nM for VEGFR1, VEGFR2, FLT3, PDGFRβ, CSF-1R and KIT respectively.[1,2] Protects cells from necroptosis and rescues SIRS mice from TNF-α-induced shock and death.[3] Exerts anti-obesity effects by promoting adipocyte browning.[4] Inhibits angiogenesis.[5]

1) Albert *et al*. (2006), *Preclinical activity of ABT-869, a multitargeted receptor tyrosine kinase inhibitor*; Mol. Cancer Ther., **5** 995
2) Guo *et al*. (2006), *Inhibition of phosphorylation of the colony-stimulating factor-1 receptor (c-Fms) tyrosine kinase in transfected cells by ABT-869 and other tyrosine kinase inhibitors*; Cancer Ther., **5** 1007
3) Yu *et al*. (2023), *Repositioning linifanib as a potent anti-necroptosis agent for sepsis*; Cell Death Discov., **9** 57
4) Zhao *et al*. (2019), *Linifanib exerts dual anti-obesity effect by regulating adipocyte browning and formation*; Life Sci., **222** 117
5) Raoul *et al*. (2017), *An in-depth review of chemical angiogenesis inhibitors for treating hepatocellular carcinoma;* Expert Opin. Pharmacother., **18** 1467

PHYSICAL DATA

Molecular Weight:	375.41
Molecular Formula:	$C_{21}H_{18}FN_5O$
Purity:	>98% by HPLC NMR: (Conforms)
Solubility:	DMSO (30 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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