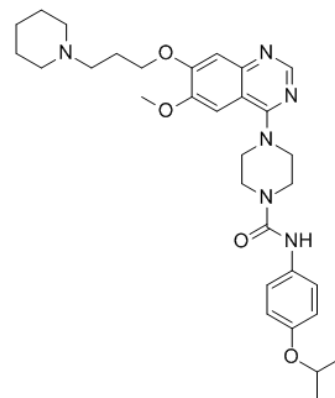


Product Name : Tandutinib
Cat. No. : PC-42447
CAS No. : 387867-13-2
Molecular Formula : C₃₁H₄₂N₆O₄
Molecular Weight : 562.703
Target : FLT3
Solubility : DMSO: ≥ 36 mg/mL



Biological Activity

Tandutinib (MLN-518, CT53518) is a potent inhibitor of **FLT3, Kit and PDGFR** with IC₅₀ of 0.22, 0.17 and 0.2 μM, respectively.

Tandutinib (MLN-518, CT53518) displays 15-20-fold less potent activity against CSF-1R.

Tandutinib (MLN-518, CT53518) inhibits IL-3-independent cell growth and FLT3-ITD autophosphorylation with IC₅₀ of 10-100 nM, induces apoptosis and inhibits FLT3-ITD phosphorylation, cellular proliferation and signaling through MAPK and PI3K pathways.

Tandutinib (MLN-518, CT53518) exhibits activity in murine models of FLT3-ITD-mediated disease.

References

Kelly LM, et al. Cancer Cell. 2002 Jun;1(5):421-32.

Pandey A, et al. J Med Chem. 2002 Aug 15;45(17):3772-93.

Griswold JJ, et al. Blood. 2004 Nov 1;104(9):2912-8.

Clark JJ, et al. Blood. 2004 Nov 1;104(9):2867-72.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com