



Data Sheet

Research Use Only

Compound Name

Tandutinib

Catalog Number

SM102

Alternative Names

MLN518, CT53518, D06005, 4-[6-methoxy-7-[3-(1-piperidinyl)propoxy]-4-quinazoliny]-N-[4-(1-methylethoxy)phenyl]-1-piperazinecarboxamide

Activity

Tandutinib is a piperazinyl quinazoline receptor tyrosine kinase inhibitor. Tandutinib inhibits the autophosphorylation of Flt-3/Flk-2 (FMS-Like Tyrosine kinase-3), c-KIT and PDGF (platelet-derived growth factor) receptor tyrosine kinases. Tandutinib is an inhibitor of PDGFR-beta.

Effect

Tandutinib inhibits cellular proliferation and induces apoptosis. Tandutinib works as a stem-like cells targeted agent to increase efficiency of anticancer drugs. It has antineoplastic activity.

Purity

>99%

CAS

387867-13-2

Formula

$C_{31}H_{42}N_6O_4$

Molecular Weight

562.70

Solubility

DMSO, ethanol

Stability

Stable at -20 °C. Keep away from direct sunlight.

References

1. Griswold, IJ., et al. 2004. Blood. 104(9): 2912-2918. PMID: 15242881
2. Brownlow, N., et al. 2008. Leukemia. 22(7): 1452-1453. PMID: 18185521
3. Zhao, XQ., et al. 2013. Eur J Pharm Sci. 49(3): 441-450. PMID: 23619284