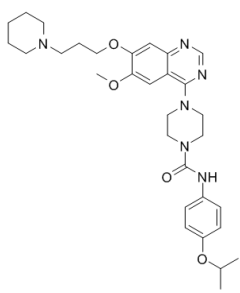


Product Name	: Tandutinib	
Synonyms	: MLN-518; MLN518; CT53518; MLN0518; MLN-0518; CT-53518	
Cat No.	: M14334	
CAS Number	: 387867-13-2	
Molecular Formula	: C ₃₁ H ₄₂ N ₆ O ₄	
Formula Weight	: 562.70	
Chemical Name	1-Piperazinecarboxamide, 4-[6-methoxy-7-[3-(1-piperidinyl)propoxy]-4-quinazolinyl]-N-[4-(1-methylethoxy)phenyl]-	
Description	A potent inhibitor of FLT3, Kit and PDGFR with IC ₅₀ of 0.22, 0.17 and 0.2 μM, respectively; displays 15-20-fold less potent activity against CSF-1R; inhibits IL-3-independent cell growth and FLT3-ITD autophosphorylation with IC ₅₀ of 10-100 nM, induces apoptosis and inhibits FLT3-ITD phosphorylation, cellular proliferation and signaling through MAPK and PI3K pathways; exhibits activity in murine models of FLT3-ITD-mediated disease. Brain Cancer Phase 2 Discontinued	
Pathway	Tyrosine Kinase	
Target	FLT3	
Receptor	c-Kit; CSF-1R; FLT3; PDGFRβ; Src	
Solubility	DMSO: ≥ 36 mg/mL	
SMILES	<chem>O=C(N1CCN(C2=C3C=C(OC)C(OCCCN4CCCCC4)=CC3=NC=N2)CC1)NC5=CC=C(OC(C)C)C=C5</chem>	
Storage	(-20°C)	
Stability	≥ 2 years	
Reference	:	

1. Kelly LM, et al. Cancer Cell. 2002 Jun; 1(5):421-32. | 2. Pandey A, et al. J Med Chem. 2002 Aug 15; 45(17):3772-93. | 3. Griswold JJ, et al. Blood. 2004 Nov 1; 104(9):2912-8. | 4. Clark JJ, et al. Blood. 2004 Nov 1; 104(9):2867-72.