

Product Name	: Danusertib
Synonyms	: PHA-739358; PHA739358; PHA 739358
Cat No.	: M16072
CAS Number	: 827318-97-8
Molecular Formula	: C ₂₆ H ₃₀ N ₆ O ₃
Formula Weight	: 474.55
Chemical Name	: Benzamide, 4-(4-methyl-1-piperazinyl)-N-[1,4,5,6-tetrahydro-5-[(2R)-2-methoxy-2-phenylacetyl]pyrrolo[3,4-c]pyrazol-3-yl]-
Description	: A potent, ATP-competitive Aurora kinase inhibitor with IC ₅₀ of 13,79 and 61 nM for Aurora A, B and C, respectively; Also inhibits Abl, RET, and FGFR1 (IC ₅₀ =25,31, and 47 nM), efficiently inhibits imatinib-resistant Abl mutant T315I (IC ₅₀ =5 nM); inhibits phosphorylation of histone H3 in Ser10, and has significant antitumor activity in different xenografts and spontaneous and transgenic animal tumor models. Blood Cancer Phase 2 Clinical
Pathway	: Cell Cycle/DNA Damage
Target	: Aurora Kinase
Receptor	: Abl;AuroraA;AuroraB;AuroraC;FGFR1;RET;TrkA
Solubility	: DMSO: 7.5 mg/mL
SMILES	: <chem>O=C(NC1=NNC2=C1CN(C([C@H](OC)C3=CC=CC=C3)=O)C2)C4=CC=C(N5CCN(C)CC5)C=C4</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Fancelli D, et al. J Med Chem. 2006 Nov 30;49(24):7247-51. | 2. Modugno M, et al. Cancer Res. 2007 Sep 1;67(17):7987-90. | 3. Carpinelli P, et al. Mol Cancer Ther. 2007 Dec;6(12 Pt 1):3158-68. | 4. Gontarewicz A, et al. Blood. 2008 Apr 15;111(8):4355-64.