MOLNOVA
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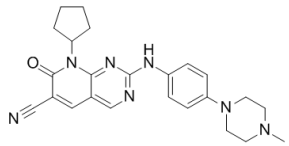
Datasheet (Version 1.0)

Product Name	:	ON123300
Synonyms	:	ON-123300;ON 123300
Cat No.	:	M11467
CAS Number	:	1357470-29-1
Molecular Formula	:	C24H27N7O
Formula Weight	:	429.52
Chemical Name	:	Pyrido[2,3-d]pyrimidine-6-carbonitrile, 8-cyclopentyl-7,8-dihydro-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-7-oxo-
Description	:	ON123300 is a potent, multi-targeted kinase inhibitor with IC50 of 5, 3.9, 26, 26, 9.2 and 11 nM for ARK5, CDK4, PDGFRβ, FGFR1, RET and FYN, respectively; inhibits U87 glioma cell proliferation with IC50 3.4 uM, and reduces phosphorylation of Akt, yet it also unexpectedly induces Erk activation and prevents phosphorylation of C-Raf S259; suppresses phosphorylation of Akt as well as activation of Erk in brain tumors in vivo; also exhibits potent activity against mantle cell lymphomas both in vitro and in vivo, triggers apoptosis and inhibition of the Rb and PI3K/AKT pathways.
Pathway	:	Angiogenesis
Target	:	CDK
Receptor	:	CDK
Solubility	:	10 mM in DMSO
SMILES	:	N#CC1=CC2=CN=C(NC3=CC=C(N4CCN(C)CC4)C=C3)N=C2N(C5CCCC5)C1=O
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	



1. Zhang X, et al. Mol Cancer Ther. 2014 May;13(5):1105-16.| 2. Divakar SK, et al. Leukemia. 2016 Jan;30(1):86-93.| 3. Perumal D, et al. Cancer Res. 2016 Mar 1;76(5):1225-36.