Product Data Sheet

Product Name: AZD1208 hydrochloride
Cat. No.: GC35447

Chemical Properties

Cas. No.	1621866-96-3		
SMILES	O=C(NC/1=O)SC1=C/C2=C(N3C[C@H](N)CCC3)C(C4=CC=CC=C4)=CC=C2.[H]Cl		
Formula	$C_{21}H_{22}ClN_3O_2S$	M.Wt	415.94
Solubility	DMSO: 83.3 mg/mL (200.27 mM and warming)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	AZD1208 hydrochloride		

Background

AZD 1208 is a potent, selective, and orally available inhibitor of all three forms of the proto-oncogene Pim kinase (IC_{50}s = 0.4, 5.0, and 1.9 nM for Pim-1, Pim-2, and Pim-3, respectively).[1] It causes cell cycle arrest and apoptosis in MOLM-16 megakaryoblastic leukemia cells and inhibits the growth of MOLM-16 xenograft tumors in mice.[1] It has efficacy against acute myeloid leukemia and glioblastoma cells when combined with mTOR and p110α inhibitors, respectively.[2,3]

1.Keeton, E.K., McEachern, K., Dillman, K.S., et al.AZD1208, a potent and selective pan-Pim kinase inhibitor, demonstrates efficacy in preclinical models of acute myeloid leukemiaBlood123(6)905-913(2014) 2.Harada, M., Benito, J., Yamamaoto, S., et al.The novel combination of dual mTOR inhibitor AZD2014 and pan-PIM inhibitor AZD1208 inhibits growth in acute myeloid leukemia via HSF pathway suppressionOncotarget6(35)37930-37947(2015) 3.Iqbal, A., Eckerdt, F., Bell, J., et al.Targeting of glioblastoma cell lines and glioma stem cells by combined PIM kinase and PI3K-p110α inhibitionOncotarget7(22)33192-33201(2016)

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