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产品名称：M-110
产品别名：M-110

生物活性：

Description	M-110 is a highly selective, ATP-competitive inhibitor of PIM kinases with a preference for PIM-3 (IC_{50}=47 nM). M-110 inhibits PIM-1 and PIM-2 with similar IC_{50}s of 2.5 μM. M-110 inhibits the proliferation of prostate cancer cell lines with IC_{50}s of 0.6 to 0.9 μM[1].	
In Vitro	M-110 (0.01-10 μM; 72 hours) inhibiting the growth of DU-145 cells with an IC50 value of 0.9 μM[1]. M-110 has no activity on normal human peripheral blood mononuclear cells up to 40 μM[1]. M-110 (10 μM; 18 hours) inhibits STAT3 Tyr705 phosphorylation[1]. M-110 inhibits the expression of active STAT3 through inhibition of PIM-3. M-110 also inhibits the proliferation of 22Rv1, PC3, and SW480 cells, with IC50 values of 0.6 to 0.8 μM[1].	
	Cell Viability Assay[1]	
	Cell Line:	DU-145 cells
	Concentration:	0.01, 0.1, 1, 10 μM
	Incubation Time:	72 hours
	Result:	Inhibiting the growth of DU-145 cells with an IC_{50} value of 0.9 μM.
	Western Blot Analysis[1]	
	Cell Line:	DU-145 cells
	Concentration:	10 μM
	Incubation Time:	18 hours
	Result:	Reduced the expression of p-STAT3 Tyr705 to 23.5%, compared with untreated cells without affecting the expression of STAT3.
References	[1]. Ther. 2010 Sep;9(9):2478-87. Cancer Chang M, et al.PIM kinase inhibitors downregulate STAT3(Tyr705) phosphorylation.Mol [2]. He Y, et al. Schisantherin A suppresses osteoclast formation and wear particle-induced osteolysis via modulating RANKL signaling pathways. Biochem Biophys Res Commun. 2014 Jul 4;449(3):344-50. [3]. Zhou E, et al. Schisantherin A protects lipopolysaccharide-induced acute respiratory distress syndrome in mice through inhibiting NF-κB and MAPKs signaling pathways. Int Immunopharmacol. 2014 Sep;22(1):133-40. [4]. Sa F, et al. Discovery of novel anti-parkinsonian effect of schisantherin A in in vitro and in vivo. Neurosci Lett. 2015 Apr 23;593:7-12. [5]. Zhang LQ, et al. Schisantherin A protects against 6-OHDA-induced dopaminergic neuron damage in zebrafish and cytotoxicity in SH-SY5Y cells through the ROS/NO and AKT/GSK3β pathways. J Ethnopharmacol. 2015 Apr 29. pii: S0378-8741(15)00306-2.	