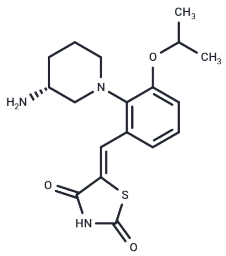
Data Sheet (Cat.No.T71242)

TargetMol

AZD-1897

Chemical Properties



CAS No. : 1204181-93-0

Formula: C18H23N3O3S

Molecular Weight: 361.46

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	AZD-1897 is a highly efficient ATP-competitive pan-PIM inhibitor with anticancer and antileukemic activity, inhibiting PIM1, PIM2, and PIM3, which can be used to study multiple myeloma.
Targets(IC50)	Pim
In vitro	AZD-1897 is a PIM1, PIM2, and PIM3 inhibitor with IC50 values of less than 3 nM. [1]

Solubility Information

Solubility	DMSO: 16 mg/mL (44.26 mM),when pH is adjusted to 2 with HCL.Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.53 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7666 mL	13.8328 mL	27.6656 mL
5 mM	0.5533 mL	2.7666 mL	5.5331 mL
10 mM	0.2767 mL	1.3833 mL	2.7666 mL
50 mM	0.0553 mL	0.2767 mL	0.5533 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Meja K, et al. PIM and AKT kinase inhibitors show synergistic cytotoxicity in acute myeloid leukaemia that is associated with convergence on mTOR and MCL1 pathways. Br J Haematol. 2014 Oct;167(1):69-79.
Dakin LA, et al. Discovery of novel benzylidene-1,3-thiazolidine-2,4-diones as potent and selective inhibitors of the PIM-1, PIM-2, and PIM-3 protein kinases. Bioorg Med Chem Lett. 2012 Jul 15;22(14):4599-604.