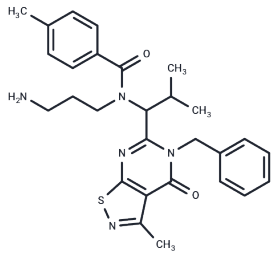
Data Sheet (Cat.No.T9682)

TargetMol

AZD-4877

Chemical Properties



CAS No. : 758722-49-5

Formula: C28H33N5O2S

Molecular Weight: 503.66

Appearance: Solid

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	AZD-4877 is a potent spindle kinesin (Eg5) inhibitor with an IC50 value of 2 nM. AZD-4877 is an alternative configuration of Ispinesib that inhibits mitosis, induces the formation of a unipolar spindle phenotype, and mediates apoptosis. AZD-4877 has antitumor activity and inhibits circulating peripheral blood mononuclear cells (PBMC).
Targets(IC50)	Apoptosis,Kinesin

Solubility Information

Solubility	DMSO: 55 mg/mL (109.2 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9855 mL	9.9273 mL	19.8547 mL
5 mM	0.3971 mL	1.9855 mL	3.9709 mL
10 mM	0.1985 mL	0.9927 mL	1.9855 mL
50 mM	0.0397 mL	0.1985 mL	0.3971 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.

Reference

Esaki T, et al. Phase I Study to Assess the Safety, Tolerability and Pharmacokinetics of AZD4877 in Japanese Patients with Solid Tumors. Arch Drug Inf. 2011 Jun;4(2):23-31.

Jones R, et al. Phase II study to assess the efficacy, safety and tolerability of the mitotic spindle kinesin inhibitor AZD4877 in patients with recurrent advanced urothelial cancer. Invest New Drugs. 2013 Aug;31(4):1001-7.

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