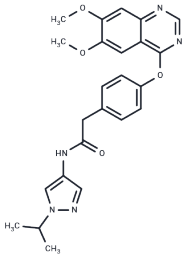
Data Sheet (Cat.No.T1836)

TargetMol

AZD2932

Chemical Properties



CAS No. : 883986-34-3

Formula: C24H25N5O4

Molecular Weight: 447.49

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	AZD2932 is a potent, multi-targeted kinase inhibitor of VEGFR2, PDGFβ, Flt-3, and c-Kit.
Targets(IC50)	FLT,c-Kit,PDGFR,VEGFR
In vitro	In the C6 rat glioma model, oral administration of AZD2932 (12.5 or 50 mg/kg, b.i.d.) was able to inhibit tumor growth. Additionally, in xenografts with tumors not expressing PDGFβ, oral doses of AZD2932 (50 mg/kg, b.i.d.) succeeded in suppressing the growth of Calu-6 and LoVo tumors.
In vivo	AZD2932 effectively inhibits the phosphorylation of PDGFRα and PDGFRβ, demonstrating strong activity against a variety of receptors including VEGFR-2 (IC50=8 nM), PDGFRβ (IC50=4 nM), Flt-3 (IC50=7 nM), and c-Kit (IC50=9 nM).
Kinase Assay	Kinase Assays : In vitro kinase IC50 values are measured using 33P filtration binding assay after 1 hour incubation of kinase, 33P-ATP, Ibrutinib, and substrate [0.2 mg/mL poly(EY)(4:1]. Assays are performed at Reaction Biology.

Solubility Information

Solubility	DMSO: 82 mg/mL (183.24 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 5 mg/mL (11.17 mM),Heating is 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 (4.47 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	2.2347 mL	11.1734 mL	22.3469 mL
5 mM	0.4469 mL	2.2347 mL	4.4694 mL
10 mM	0.2235 mL	1.1173 mL	2.2347 mL
50 mM	0.0447 mL	0.2235 mL	0.4469 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

Plé PA, et al. Bioorg Med Chem Lett, 2012, 22(1), 262-266