

AZD3229

Chemical Properties

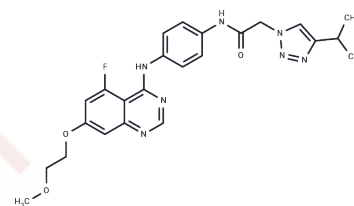
CAS No. : 2248003-60-1

Formula: C₂₄H₂₆FN₇O₃

Molecular Weight: 479.51

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	AZD3229 is a potent pan-KIT mutant inhibitor for the treatment of gastrointestinal stromal tumors. It demonstrates potent single-digit nM growth inhibition across a broad cell panel.
Targets(IC50)	c-Kit
In vivo	Following a single dose (AZD3229, 20 mg/kg), high free cover over the target is achieved and is associated with complete suppression of pKIT and downstream markers out to 8 hours. As the compound is cleared and cover declines, these signals recover although recovery is not complete even at 24 hours.

Solubility Information

Solubility	H ₂ O: Insoluble, DMSO: 31.25 mg/mL (65.17 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 3.13 mg/mL (6.53 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Corn Oil: 5 mg/mL (10.43 mM),Sonication is recommended. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.13 mg/mL (6.53 mM),Solution. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0855 mL	10.4273 mL	20.8546 mL
5 mM	0.4171 mL	2.0855 mL	4.1709 mL
10 mM	0.2085 mL	1.0427 mL	2.0855 mL
50 mM	0.0417 mL	0.2085 mL	0.4171 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

Kettle JG, et al. Discovery of N-(4-[[5-Fluoro-7-(2-methoxyethoxy) quinazolin-4-yl]amino} phenyl)-2-[4-(propan-2-yl)-1 H-1,2,3-triazol-1-yl]acetamide (AZD3229), a Potent Pan-KIT Mutant Inhibitor for the Treatment of Gastrointestinal Stromal Tumors. *J Med Chem.* 2018 Oct 11;61(19):8797-8810.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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