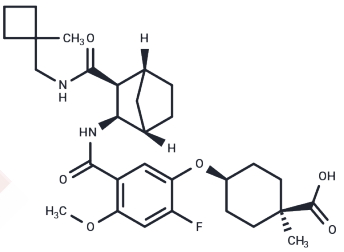
Data Sheet (Cat.No.T63838)

TargetMol

AZD5462

Chemical Properties



CAS No. : 2787501-83-9

Formula: C30H41FN2O6

Molecular Weight: 544.65

Storage: Store at low temperature
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	AZD5462 is a potent orally available relaxin receptor RXFP1 agonist for the study of heart failure and cancer.
Targets(IC50)	RXFP receptor
In vitro	AZD5462 (example 1) exhibits stimulatory activity on cAMP or cGMP production with EC50s of 17 nM and 50 nM, respectively[1]. Binding to human plasma proteins with a fraction unbound (free) rate of 4.3%, AZD5462 demonstrates stability with Clint values of 23 μL/min/mg (human liver microsomal), 4.8 μL/min/10^6 cells (human hepatocyte), and 11 μL/min/10^6 cells (rat hepatocyte)[1]. AZD5462 enhances the phosphorylation of ERK with an EC50 value of 6.3 nM[1].

Solubility Information

Solubility	DMSO: 150 mg/mL (275.41 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (18.36 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% (20% SBE-β-CD in Saline): < 10 mg/mL (18.36 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: < 10 mg/mL (18.36 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Corn oil: 10 mg/mL (18.36 mM),Solution. *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	1.836 mL	9.1802 mL	18.3604 mL
5 mM	0.3672 mL	1.836 mL	3.6721 mL
10 mM	0.1836 mL	0.918 mL	1.836 mL
50 mM	0.0367 mL	0.1836 mL	0.3672 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

Granberg Kenneth Lars, et al. 4-(2-Fluoro-4-methoxy-5-(3-(((1-methylcyclobutyl)methyl)carbamoyl)bicyclo[2.2.1]heptan-2-yl)carbamoyl)phenoxy)-1-methylcyclohexane-1-carboxylic acid derivatives and similar compounds as RXFP1 modulators for the treatment of heart failure and their preparation: World Intellectual Property Organization, WO2022122773. 2022-06-16.