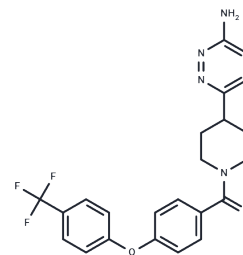


BI-749327

## Chemical Properties

CAS No. :	2361241-23-6
Formula:	C23H21F3N4O2
Molecular Weight:	442.43
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	BI-749327 is a high selectivity and orally bioavailable antagonist of TRPC6 (IC50s: 13 nM, 19 nM and 15 nM for mouse, human and guinea pig TRPC6).
Targets(IC50)	TRP/TRPV Channel
In vitro	BI-749327 is 85-fold more selective for mouse TRPC6 than TRPC3 and 42-fold versus TRPC7. BI-749327 suppresses NFAT activation in HEK293T cells expressing wild-type or gain-of-function TRPC6 mutants and blocks associated signaling and expression of prohypertrophic genes in isolated myocytes.
In vivo	BI-749327 (30 mg/kg/day; i.g.) enhances left heart function, lowers volume/mass ratio, and mitigates profibrotic gene expression and interstitial fibrosis in mice under sustained pressure overload. Additionally, BI-749327 dose-dependently decreases renal fibrosis and related gene expression in mice with unilateral ureteral obstruction. BI-749327 (3-30 mg/kg; p.o.) exhibits a long terminal half-life (t1/2 8.5-13.5 hours) in mice.

## Solubility Information

Solubility	DMSO: 27.8 mg/mL (62.83 mM), Sonication 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 (4.52 mM), Sonication is recommended. <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

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	1mg	5mg	10mg
1 mM	2.2602 mL	11.3012 mL	22.6024 mL
5 mM	0.452 mL	2.2602 mL	4.5205 mL
10 mM	0.226 mL	1.1301 mL	2.2602 mL
50 mM	0.0452 mL	0.226 mL	0.452 mL

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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

Lin B L, et al. In vivo selective inhibition of TRPC6 by antagonist BI 749327 ameliorates fibrosis and dysfunction in cardiac and renal disease. Proc Natl Acad Sci U S A. 2019 May 14;116(20):10156-10161.

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