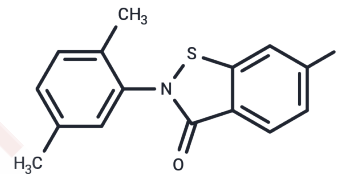


MLS0315771

## Chemical Properties

CAS No. : 727664-91-7  
 Formula: C<sub>15</sub>H<sub>12</sub>FNOS  
 Molecular Weight: 273.33  
 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	MLS0315771 is an effective and biologically active competitive phosphomannose isomerase (MPI) inhibitor (IC <sub>50</sub> : ~1 μM and a K <sub>i</sub> : 1.4 μM).
Targets(IC <sub>50</sub> )	Others
In vitro	MLS0315771 is toxic to the zebrafish embryos above 2 μM. MLS0315771 toxicity at higher concentrations is an off-target effect. MLS0315771 enhances mannose flux toward glycosylation. It ~50% of embryos appeared sick within 20 min at 8-10 μM, and most of them die by 30-60 min.

## Solubility Information

Solubility	DMSO: 11 mg/mL (40.24 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6586 mL	18.2929 mL	36.5858 mL
5 mM	0.7317 mL	3.6586 mL	7.3172 mL
10 mM	0.3659 mL	1.8293 mL	3.6586 mL
50 mM	0.0732 mL	0.3659 mL	0.7317 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

Sharma V, et al. Phosphomannose isomerase inhibitors improve N-glycosylation in selected phosphomannomutase-deficient fibroblasts. J Biol Chem. 2011 Nov 11;286(45):39431-8.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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