

Product Data Sheet

Product Name: MLS0315771

Cat. No.: GC31369

Chemical Properties

Cas. No. 727664-91-7

SMILES FC1=CC=C2C(SN(C3=C(C)C=CC(C)=C3)C2=O)=C1

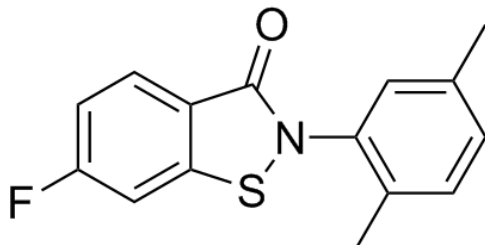
Formula $C_{15}H_{12}FNOS$ M.Wt 273.33

Solubility DMSO : 100 mg/mL (365.86 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

MLS0315771 is a potent and biologically active competitive phosphomannose isomerase (MPI) inhibitor, with an IC₅₀ ~1 μM and a K_i of 1.4 μM.

MLS0315771 increases mannose flux toward glycosylation. MLS0315771 toxicity at higher

Caution: Product has not been fully validated for medical applications. For research use only.

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concentrations is an off-target effect. MLS0315771 is toxic to the zebrafish embryos above 2 μ M. At 8-10 μ M, ~50% embryos appear sick within 20 min, and most of them die by 30-60 min[1].

[1]. 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.

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