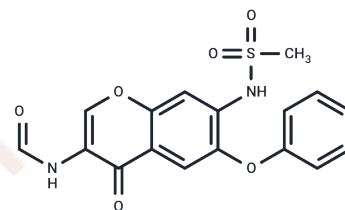


Iguratimod

Chemical Properties

CAS No. :	123663-49-0
Formula:	C ₁₇ H ₁₄ N ₂ O ₆ S
Molecular Weight:	374.37
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	Iguratimod (T614) is an antirheumatic agent, acts as an inhibitor of COX-2, with an IC ₅₀ of 20 μM (7.7 μg/mL), but shows no effect on COX-1. Iguratimod also inhibits macrophage migration inhibitory factor (MIF) with an IC ₅₀ of 6.81 μM.
Targets(IC ₅₀)	COX, MIF

Solubility Information

Solubility	DMSO: 10 mg/mL (26.71 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	2.6712 mL	13.3558 mL	26.7115 mL
5 mM	0.5342 mL	2.6712 mL	5.3423 mL
10 mM	0.2671 mL	1.3356 mL	2.6712 mL
50 mM	0.0534 mL	0.2671 mL	0.5342 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

Tanaka K, et al. T-614, a novel antirheumatic drug, inhibits both the activity and induction of cyclooxygenase-2 (COX-2) in cultured fibroblasts. *Jpn J Pharmacol.* 1995 Apr;67(4):305-14.

Sun Y, et al. Anti-rheumatic drug iguratimod protects against cancer-induced bone pain and bone destruction in a rat model. *Oncol Lett.* 2017 Jun;13(6):4849-4856.

Iguratiomod, et al. Identification of Iguratimod as an Inhibitor of Macrophage Migration Inhibitory Factor (MIF) with Steroid-sparing Potential. *J Biol Chem.* 2016 Dec 16;291(51):26502-26514.

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