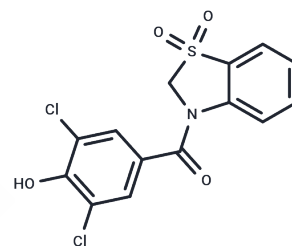


Dotinurad

Chemical Properties

CAS No. :	1285572-51-1
Formula:	C ₁₄ H ₉ Cl ₂ NO ₄ S
Molecular Weight:	358.2
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	Dotinurad ((3,5-dichloro-4-hydroxyphenyl)(1,1-dioxidobenzo[d]thiazol-3(2H)-yl)methanone) is a potent agent of uricosuric (IC ₅₀ : 3.6 μM for uric acid).
Targets(IC ₅₀)	OAT

Solubility Information

Solubility	DMSO: 240 mg/mL (670.02 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: 10 mg/mL (27.92 mM), Solution. 10% DMSO+90% Saline: < 10 mg/mL (27.92 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <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

	1mg	5mg	10mg
1 mM	2.7917 mL	13.9587 mL	27.9174 mL
5 mM	0.5583 mL	2.7917 mL	5.5835 mL
10 mM	0.2792 mL	1.3959 mL	2.7917 mL
50 mM	0.0558 mL	0.2792 mL	0.5583 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

Li X, et al. Pharmacological urate-lowering approaches in chronic kidney disease. Eur J Med Chem. 2019 Mar 15; 166:186-196.

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