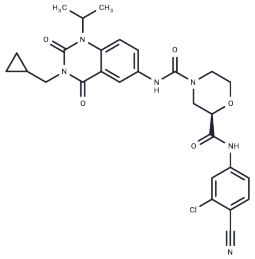
Data Sheet (Cat.No.T12753)

TargetMol

RORγt Inverse agonist 6

Chemical Properties



CAS No. : 1887161-80-9

Formula: C28H29ClN6O5

Molecular Weight: 565.02

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	RORγt Inverse agonist 6 is an agonist of RORγt inverse. RORγt Inverse agonist 6 can be used in research on Th17-driven autoimmune diseases.
Targets(IC50)	ROR
In vivo	RORγt Inverse agonist 6 (30 mg/kg; p.o.) inhibits the expression level of IL-17A by 59% compared to the vehicle after the oral administration at the tested dose. RORγt Inverse agonist 6 suppresses IL-17A gene expression by IL-23 stimulation in a mouse pharmacodynamics model. RORγt Inverse agonist 6 (1 mg/kg; p.o.) exhibits improved drug exposure with AUC of 1289 ng h/mL[1].

Solubility Information

Solubility	DMSO: 45 mg/mL (79.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (3.54 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7698 mL	8.8492 mL	17.6985 mL
5 mM	0.354 mL	1.7698 mL	3.5397 mL
10 mM	0.177 mL	0.8849 mL	1.7698 mL
50 mM	0.0354 mL	0.177 mL	0.354 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

Sato A, et al. Design and Synthesis of Conformationally Constrained RORγt Inverse Agonists. ChemMedChem. 2019 Oct 28.