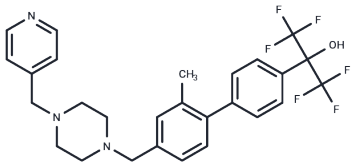
Data Sheet (Cat.No.T35638)

TargetMol
YOUR TARGET MOLECULES

SR 1903

Chemical Properties



CAS No. : 1414248-06-8

Formula: C27H27F6N3O

Molecular Weight: 523.51

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	SR 1903 is a modulator of retinoic acid receptor-related orphan receptor γ (RORγ) and liver X receptor (LXR).1 It is an inverse agonist of RORγ (IC50 = ~100 nM in a cell-based reporter assay) and an agonist of LXR. It also binds to peroxisome proliferator-activated receptor γ (PPARγ; IC50 = 209 nM) but does not activate it. SR 1903 (10 μM) inhibits LPS-induced expression of triggering receptor expressed on myeloid cells 1 (TREM-1) in RAW 264.7 cells. It also inhibits LPS-induced expression of the LXR target genes IL-6 and IL-33 and increases expression of ABCG1, FASN, and SCD-1 in RAW 264.7 cells. SR 1903 (20 mg/kg twice per day) reduces severity score in a mouse model of collagen-induced arthritis. It reduces blood glucose levels in a glucose tolerance test, serum levels of total cholesterol and LDL, body weight, and fat mass in a mouse model of high-fat diet-induced obesity.

Solubility Information

Solubility	DMSO: 20 mg/mL DMF: 20 mg/mL Ethanol: 10 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9102 mL	9.5509 mL	19.1018 mL
5 mM	0.382 mL	1.9102 mL	3.8204 mL
10 mM	0.191 mL	0.9551 mL	1.9102 mL
50 mM	0.0382 mL	0.191 mL	0.382 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.

Reference

Chang, M.R., Ciesla, A., Strutzenberg, T.S., et al. Unique polypharmacology nuclear receptor modulator blocks inflammatory signaling pathways. ACS Chem. Biol. 14(5), 1051-1062 (2019).

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