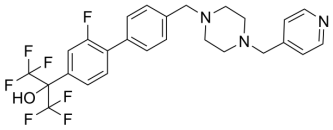
SR2211

Cat. No.:	HY-16998
CAS No.:	1359164-11-6
Molecular Formula:	$C_{26}H_{24}F_7N_3O$
Molecular Weight:	527.48
Target:	ROR
Pathway:	Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (189.58 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.8958 mL	9.4790 mL	18.9581 mL
	5 mM	0.3792 mL	1.8958 mL	3.7916 mL
	10 mM	0.1896 mL	0.9479 mL	1.8958 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.74 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SR2211 is a potent, selective synthetic RORγ modulator and functions as an inverse agonist, with a K_i of 105 nM and an IC_{50} of ~320 nM.

IC_{50} & Target

IC50: ~320 nM (RORγ), Ki: 105 nM (RORγ)[1][2].

In Vitro

The treatment of EL4 with SR2211 represses the IL-17 gene expression. Similarly, the expression of IL-23 receptor (Il23r) is significantly inhibited by SR2211. Treatment of EL-4 cells with SR2211 results in significant inhibition of IL-17 intracellular staining as compared to vehicle treated cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kumar N, et al. Identification of SR2211: a potent synthetic RORγ-selective modulator. ACS Chem Biol. 2012 Apr 20;7(4):672-7.

[2]. Song Y, et al. Identification of N-phenyl-2-(N-phenylphenylsulfonamido)acetamides as new RORγ inverse agonists: Virtual screening, structure-based optimization, and biological evaluation. Eur J Med Chem. 2016 Jun 30;116:13-26.

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