

SR 1555 (hydrochloride) (1386439-51-5 free base)

## Chemical Properties

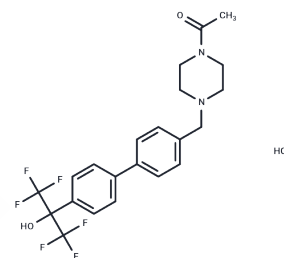
CAS No. :

Formula: C<sub>22</sub>H<sub>22</sub>F<sub>6</sub>N<sub>2</sub>O<sub>2</sub>·HCl

Molecular Weight: 496.9

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	SR 1555 is a novel ROR $\gamma$ -specific synthetic ligand.
Targets(IC50)	Others
In vitro	In vitro: In a GAL4-NR chimeric co-transfection assay, SR1555 was devoid of LXR, FXR, and ROR $\alpha$ activity, but it dose-dependently repressed the activity at ROR $\gamma$ (IC <sub>50</sub> : $\approx$ 1.5 $\mu$ M). In competitive radioligand binding assays, SR1555 bound to ROR $\gamma$ (IC <sub>50</sub> : 1 $\mu$ M). SR1555 specifically targeted ROR $\gamma$ and inhibited its transcriptional activity leading to suppression of IL-17 gene expression. EL4 cells treated SR1555 (10 $\mu$ M) for 24 h inhibited IL17a gene expression by greater than 70%, demonstrating that SR1555 could inhibit the expression of this TH17 mediated cytokine. SR1555 not only inhibited TH17 cell development and function but also increased the frequency of T regulatory cells [1].

## Solubility Information

Solubility	Ethanol: $\leq$ 1.6 mg/mL, Sonication is recommended. DMSO: 3 mg/mL (6.04 mM), Sonication is recommended. ( $<$ 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.0125 mL	10.0624 mL	20.1248 mL
5 mM	0.4025 mL	2.0125 mL	4.025 mL
10 mM	0.2012 mL	1.0062 mL	2.0125 mL
50 mM	0.0402 mL	0.2012 mL	0.4025 mL

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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.

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