

SS-RJW100

Chemical Properties

CAS No. :

Formula: C₂₈H₃₄O

Molecular Weight: 386.57

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	SS-RJW100 is an enantiomer of RJW100, known as a racemic agonist that targets two nuclear receptors: liver receptor homolog 1 (LRH-1) and steroidogenic factor 1 (SF-1). In vitro experiments reveal that SS-RJW100 promotes the recruitment of coregulator protein fragments and enhances the interaction with the transcriptional intermediary factor 2 (Tif2) coactivator specifically for LRH-1. Additionally, SS-RJW100 disrupts the allosteric activation networks of LRH-1, displaying suboptimal thermal stability [1] [2].
Targets(IC50)	Others,Orphan Receptor
In vitro	SS-RJW100 targets liver receptor homolog-1 (LRH-1) and steroidogenic factor-1 (SF-1), crucial nuclear hormone receptors (NR) for metabolism, inflammation, and cell proliferation. It exhibits selective affinity with Ki values of 1.2 µM for LRH-1 and 30 µM for SF-1. Treatment with SS-RJW100 at 30 µM for 24 hours increases LRH-1 transcriptional activity in Hela cells overexpressing wild-type and mutant LRH-1 (T352V, H390A, A349F), indicating its efficacy is not compromised by these mutations, thus showing potential for activating LRH-1-dependent transcription in diverse cellular contexts despite common LRH-1 mutations.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5869 mL	12.9343 mL	25.8685 mL
5 mM	0.5174 mL	2.5869 mL	5.1737 mL
10 mM	0.2587 mL	1.2934 mL	2.5869 mL
50 mM	0.0517 mL	0.2587 mL	0.5174 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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