Product Data Sheet

Product Name: SS-RJW100
Cat. No.: GC67870

Chemical Properties

Cas. No.			
Formula	$C_{28}H_{34}O$	M.Wt	386.57
Solubility	DMSO : 100 mg/mL (258.69 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	SS-RJW100		

Background

SS-RJW100 is a enantiomer of RJW100, which is a racemic agonist of nuclear receptor liver receptor homolog 1 (**LRH-1**) and steroidogenic factor 1 (**SF-1**). SS-RJW100 promotes recruitment of coregulator protein fragments in vitro, recruits the transcriptional intermediary factor 2 (Tif2) coactivator to LRH-1. SS-RJW100 diminishes LRH-1 allosteric activation networks, shows poor thermal stability[1][2].

Liver receptor homolog-1 (LRH-1) and steroidogenic factor-1 (SF-1) are closely related nuclear hormone receptors (NR) that play key roles as regulators of metabolism, inflammation, and proliferation[1].
SS-RJW100 (1 nM-1 mM;) binds LRH-1 and SF-1, with binding affinity K_i values of 1.2 μM (LRH-1), 30 μM (SF-1), respectively[1].
SS-RJW100 (30 μM; 24 h) increases LRH-1 transcriptional activity in both wild-type and mutant LRH-1 overexpressed Hela cells, without being affected by mutations[1].

RT-PCR[1]

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

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Cell Line:	Wild-type (WT) and mutant LRH-1 overexpressed Hela cells (T352V, H390A, A349F)
Concentration:	30 μM
Incubation Time:	24 hours; for pre-treatment
Result:	Increased increases LRH-1 transcriptional activity. Showed activation effect on LRH-1 expressing cells without being affected by T352V LRH-1 mutant or H390A LRH-1 mutant.

[1]. Mays SG, et al. Enantiomer-specific activities of an LRH-1 and SF-1 dual agonist. Sci Rep. 2020 Dec 17;10(1):22279.
[2]. Stec J. Tandem reaction sequences on a zirconocene template[J]. University of Southampton, 2010.

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