Product Data Sheet

Product Name: RJW103
Cat. No.: GC81643

Chemical Properties

Cas. No.	1276664-14-2		
Formula	$C_{28}H_{35}N$	M.Wt	385.58
Solubility	DMSO: 100 mg/mL (259.35 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Caution: Product has not been fully validated for medical applications. For research use only.
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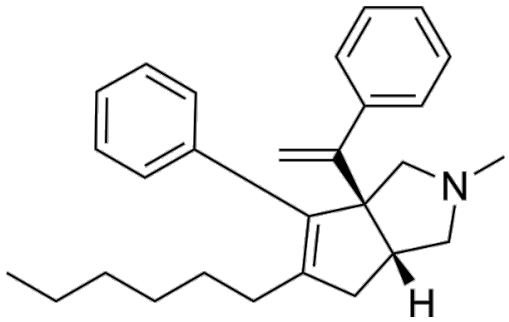
Structure



Background

RJW103 is an acid-stable SF-1 (NR5A1) and LRH-1 agonist with pEC 50 values of 6.5 and 5.9, respectively. RJW103 activates SF-1 - and LRH-1 -mediated transcription of endogenous target genes. RJW103 can be used in research on cancer, endocrinology and metabolic diseases, such as adrenocortical tumors [1] [2].

In Vitro, RJW103 (10 μM; 24 h) activates SF-1-mediated transcription of SHP, StAR, G0S2, and MeOX1 in mSF-1-expressing HEK293 cells, and activates LRH-1-mediated transcription of StAR and G0S2 (but not SHP or MeOX1) in hLRH-1-expressing HEK293 cells[1].

References:

[1]. Whitby RJ, et al. Small molecule agonists of the orphan nuclear receptors steroidogenic factor-1 (SF-1, NR5A1) and liver receptor homologue-1 (LRH-1, NR5A2). J Med Chem. 2011;54(7):2266-

2281.
[2]. Wu T, et al. Liver receptor homolog-1: structures, related diseases, and drug discovery. Acta Pharmacol Sin. 2024;45(8):1571-1581.