
Product Data Sheet

Product Name: RJW100
Cat. No.: GC64499

Chemical Properties

Cas. No. 1276664-20-0

Formula C₂₈H₃₄O M.Wt 386.57

Solubility 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.

Structure

Background

RJW100 is a potent liver receptor homolog 1 (LRH-1, NR5A2) and steroidogenic factor-1 (SF-1, NR5A1) agonist with pEC₅₀s of 6.6 and 7.5, respectively[1]. RJW100 also causes strong activation of the miR-200c (miRNA-200c, microRNA-200c) promoter[2].

RJW100 (compound 24-exo) treatment induces a significant dose-dependent increase in small/short heterodimer partner (SHP) transcripts beginning at 5 μM[1]. RJW100 (compound 24-exo) clearly displaces the bound PIP₂ phospholipid from SF-1 almost completely at 1 μM[1]. Using hLRH-1 LBD alone that had not been complexed with any phospholipids, the result shows a clear dose-dependent shift in hLRH-1 LBD (ligand binding domain) native PAGE migration upon RJW100 (compound 24-exo; 0-100 μM) binding[1]. RJW100 causes strong activation of the miR-200c promoter and exhibits strong ability to downregulate ZEB1 and ZEB2 proteins[2].

[1]. Richard J Whitby, 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 Apr 14;54(7):2266-81.

[2]. Yuxia Zhang, et al. Regulation of miR-200c by nuclear receptors PPARα, LRH-1 and SHP. *Biochem Biophys Res Commun.* 2011 Dec 9;416(1-2):135-9.

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

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