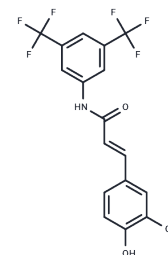


SRD5A1-IN-1

Chemical Properties

CAS No. :	2279077-93-7
Formula:	C ₁₇ H ₁₁ F ₆ NO ₃
Molecular Weight:	391.27
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	SRD5A1-IN-1 is an inhibitor of steroid 5 α -reductase type 1 (SRD5A1, IC ₅₀ = 1.44 μ M). SRD5A1-IN-1 lowers the production of dihydrotestosterone and shows a significant decrease in the SRD5A1 protein expression.
Targets(IC ₅₀)	Others
In vitro	In HaCaT cells, SRD5A1-IN-1 (0.5-2.5 μ M) lowers the expression of SRD5A1 protein and modulates SRD5A1 via the dual actions that affect the level of SRD5A1 protein expression and the activity of the SRD5A1 enzyme. SRD5A1-IN-1 (0.5-2.5 μ M) does not affect the mRNA expression of SRD5A1 and shows no significant cytotoxicity[1].

Solubility Information

Solubility	DMSO: 27.5 mg/mL (70.29 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5558 mL	12.7789 mL	25.5578 mL
5 mM	0.5112 mL	2.5558 mL	5.1116 mL
10 mM	0.2556 mL	1.2779 mL	2.5558 mL
50 mM	0.0511 mL	0.2556 mL	0.5112 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.

Reference

Lin A C K, et al. Caffeic acid N-[3, 5-bis (trifluoromethyl) phenyl] amide as a non-steroidal inhibitor for steroid 5 α -reductase type 1 using a human keratinocyte cell-based assay and molecular dynamics. Scientific Reports, 2022,

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481