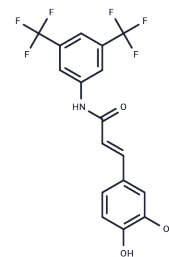


SRD5A1-IN-1

Chemical Properties

CAS No. :	2279077-93-7
Formula:	C17H11F6NO3
Molecular Weight:	391.27
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	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(IC50)	Others,Reductase
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 (70.28 mM),Sonication is recommended. (< 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.

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.

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, 12(1): 1-20.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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