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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

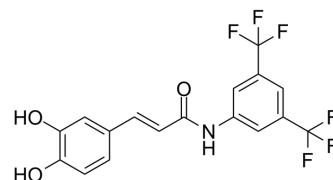
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

SRD5A1-IN-1

Cat. No.:	HY-152094
CAS No.:	2279077-93-7
Molecular Formula:	C ₁₇ H ₁₁ F ₆ NO ₃
Molecular Weight:	391.26
Target:	Others
Pathway:	Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (255.58 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	2.5558 mL	12.7792 mL	25.5585 mL	
		5 mM	0.5112 mL	2.5558 mL	5.1117 mL	
		10 mM	0.2556 mL	1.2779 mL	2.5558 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.39 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.39 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	SRD5A1-IN-1 (Compound 4) is a competitive and covalent steroid 5α-reductase type 1 (SRD5A1) inhibitor with an IC ₅₀ of 1.44 μM. SRD5A1-IN-1 modulates SRD5A1 function, leading to a lower level of dihydrotestosterone (DHT) production and SRD5A1 protein suppression ^[1] .
IC ₅₀ & Target	IC ₅₀ : 1.44 μM (SRD5A1) ^[1]
In Vitro	SRD5A1-IN-1 (Compound 4) (0.5-2.5 μM; 24 h) decreases SRD5A1 protein expression ^[1] . SRD5A1-IN-1 (0-2.5 μM; 12 h) modulates SRD5A1 via the dual actions that affect the level of SRD5A1 protein expression and the activity of the SRD5A1 enzyme ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis^[1]

Cell Line:	HaCaT
Concentration:	0.5, 1, and 2.5 μ M
Incubation Time:	12 h and 24 h
Result:	Showed a significant decrease in SRD5A1 protein expression at 1 and 2.5 μ M at 24 h, whereas there were no significant changes in the level of SRD5A1 protein at 12 h.

RT-PCR^[1]

Cell Line:	HaCaT
Concentration:	0.5, 1, and 2.5 μ M
Incubation Time:	12 h and 24 h
Result:	Did not affect the mRNA expression of SRD5A1 at both incubation times.

Cell Cytotoxicity Assay^[1]

Cell Line:	HaCaT
Concentration:	0.2, 0.5, 1, and 2.5 μ M
Incubation Time:	24 h
Result:	Displayed no significant cytotoxicity (IC_{50} : 29.99 ± 8.69 μ M).

REFERENCES

[1]. 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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA