CYP11A1-IN-1

Cat. No.: HY-156530

CAS No.: 2744168-51-0

Molecular Formula: $C_{27}H_{34}N_2O_5$

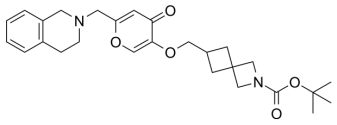
Molecular Weight: 466.57

Target: Cytochrome P450

Pathway: Metabolic Enzyme/Protease

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 (214.33 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1433 mL	10.7165 mL	21.4330 mL
	5 mM	0.4287 mL	2.1433 mL	4.2866 mL
	10 mM	0.2143 mL	1.0717 mL	2.1433 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 (5.36 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.36 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CYP11A1-IN-1 (compound 30) is an inhibitor of CYP11A1, with IC_{50} value of 201-2000 nM. CYP11A1-IN-1 can be used for research in steroid receptor, particularly androgen receptor, dependent diseases and conditions, such as prostate cancer[1].

IC_{50} & Target

CYP11A1[1]

REFERENCES

[1]. Din B, et al. Preparation of substituted pyran-4-ones and 2-((cyclo)alkylsulfonyl)phenols as CYP11A1 inhibitors. World Intellectual Property Organization,

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