Tetrahydrocortisone

Cat. No.: HY-113114

CAS No.: 53-05-4

Molecular Formula: $C_{21}H_{32}O_5$

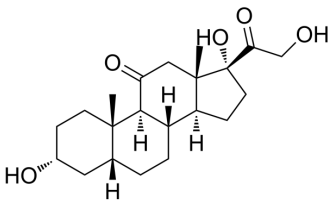
Molecular Weight: 364.48

Target: Endogenous Metabolite

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 : 50 mg/mL (137.18 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.7436 mL	13.7182 mL	27.4363 mL
	5 mM	0.5487 mL	2.7436 mL	5.4873 mL
	10 mM	0.2744 mL	1.3718 mL	2.7436 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 1.25 mg/mL (3.43 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1.25 mg/mL (3.43 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1.25 mg/mL (3.43 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Tetrahydrocortisone is a stress-induced hormone. Tetrahydrocortisone is also a urinary metabolite of Cortisone derived from the reduction of Cortisone by 5-reductase[1].

REFERENCES

[1]. Thiam Chye TAN, et al. Characteristic metabolites in miscarriages. WO2018199849A1.

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