Proteins

Inhibitors



Tetrahydrocortisol

Cat. No.: HY-129630 CAS No.: 53-02-1 Molecular Formula: $C_{21}H_{34}O_{5}$

Molecular Weight:

Target: **Endogenous Metabolite** Pathway: Metabolic Enzyme/Protease

366.49

Powder -20°C Storage: 3 years In solvent -80°C 6 months

> -20°C 1 month

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

DMSO: 50 mg/mL (136.43 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.7286 mL	13.6429 mL	27.2859 mL
	5 mM	0.5457 mL	2.7286 mL	5.4572 mL
	10 mM	0.2729 mL	1.3643 mL	2.7286 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 (3.41 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (3.41 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (3.41 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Tetrahydrocortisol is cortisol metabolite. The urinary Tetrahydrocortisol/Tetrahydrocortisone ratio decreases with increasing 11 β -hydroxysteroid dehydrogenase (11 β -HSD) activity [1][2].

REFERENCES

[1]. Webster SP, et al. Selection and early clinical evaluation of the brain-penetrant 11β-hydroxysteroid dehydrogenase type 1 (11β-HSD1) inhibitor UE2343 (Xanamem™). Br J Pharmacol. 2017 Mar;174(5):396-408.

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
Address. I Beer Lank B., Garte Q. Monniodan Ganterion, 110 00002, 001

Page 2 of 2 www.MedChemExpress.com