# **Screening Libraries**

# **Product** Data Sheet

# **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

3 years 2 years

-80°C In solvent 6 months

-20°C

-20°C 1 month

### **SOLVENT & SOLUBILITY**

In Vitro

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

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.7436 mL	13.7182 mL	27.4363 mL
Stock Solutions	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<sup>[1]</sup>.

## **REFERENCES**

1]. Thiam Chye TAN, et al. Cha	racteristic metabolites in i	mscamages. WOZU16199649A1.		
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