# 3-Hydroxydodecanoic acid

**Cat. No.:** HY-113107

**CAS No.:** 1883-13-2

**Molecular Formula:** $C_{12}H_{24}O_3$

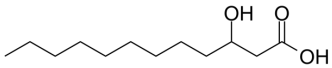
**Molecular Weight:** 216.32

**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 : 100 mg/mL (462.28 mM; Need ultrasonic)

**Preparing Stock Solutions**

| Mass / Solvent / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|
| 1 mM | 4.6228 mL | 23.1139 mL | 46.2278 mL |
| 5 mM | 0.9246 mL | 4.6228 mL | 9.2456 mL |
| 10 mM | 0.4623 mL | 2.3114 mL | 4.6228 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: ≥ 2.5 mg/mL (11.56 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (11.56 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

3-Hydroxydodecanoic acid is a medium-chain fatty acid associated with fatty acid metabolic disorders.

**$IC_{50}$ & Target**

Human Endogenous Metabolite

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

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