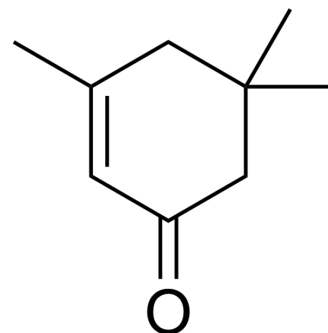


Isophorone

| | | |
|---------------------------|----------------------------------|---------------------------------|
| Cat. No.: | HY-Y0932 | |
| CAS No.: | 78-59-1 | |
| Molecular Formula: | C ₉ H ₁₄ O | |
| Molecular Weight: | 138.21 | |
| Target: | Biochemical Assay Reagents | |
| Pathway: | Others | |
| Storage: | Pure form | -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 (723.54 mM; Need ultrasonic) | | | | |
| | | Solvent Concentration | Mass 1 mg | 5 mg | 10 mg |
| | Preparing Stock Solutions | 1 mM | 7.2354 mL | 36.1768 mL | 72.3537 mL |
| | | 5 mM | 1.4471 mL | 7.2354 mL | 14.4707 mL |
| 10 mM | | 0.7235 mL | 3.6177 mL | 7.2354 mL | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | |
| In Vivo | <ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (18.09 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (18.09 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (18.09 mM); Clear solution | | | | |

BIOLOGICAL ACTIVITY

| | |
|--------------------|---|
| Description | Isophorone, an α,β-unsaturated cyclic ketone, is used as a precursor to polymers ^[1] . |
| In Vitro | The selective oxidation of isophorone to 4-hydroxisophorone, which is an important flavour and fragrance compound as well as a synthetic intermediate for pigments and drug molecules, is a suitable target for biocatalytic oxidation ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[1]. Dezvarei S, et al. Stereoselective hydroxylation of isophorone by variants of the cytochromes P450 CYP102A1 and CYP101A1. *Enzyme Microb Technol.* 2018 Apr;111:29-37.

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