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Produktinformation

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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1-Phenylpropane-1,2-dione

Cat. No.: HY-W018758

CAS No.: 579-07-7

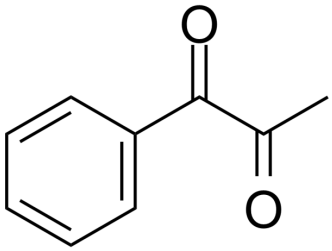
Molecular Formula: $C_9H_8O_2$

Molecular Weight: 148.16

Target: Others

Pathway: Others

Storage: 4°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 290 mg/mL (1957.34 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	6.7495 mL	33.7473 mL	67.4946 mL
	5 mM	1.3499 mL	6.7495 mL	13.4989 mL
	10 mM	0.6749 mL	3.3747 mL	6.7495 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: ≥ 2.42 mg/mL (16.33 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.42 mg/mL (16.33 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.42 mg/mL (16.33 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

1-Phenylpropane-1,2-dione, isolated from young Ephedra sinica Stapf (Ephedraceae), is biosynthetic precursors of the ephedrine alkaloids[1][2].

In Vitro

The main active principles of E. sinica are the unique and taxonomically restricted adrenergic agonists phenylpropylamino alkaloids, also known as the ephedrine alkaloids[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Raz Krizevski, et al. Composition and Stereochemistry of Ephedrine Alkaloids Accumulation in Ephedra Sinica Stapf. Phytochemistry. 2010 Jun;71(8-9):895-903.

[2]. Raz Krizevski, et al. Benzaldehyde Is a Precursor of Phenylpropylamino Alkaloids as Revealed by Targeted Metabolic Profiling and Comparative Biochemical Analyses in Ephedra Spp. Phytochemistry. 2012 Sep;81:71-9.

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