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Produktinformation

- Forschungsprodukte & Biochemikalien
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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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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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γ-Hexalactone

Cat. No.: HY-W015892

CAS No.: 695-06-7

Molecular Formula: $C_6H_{10}O_2$

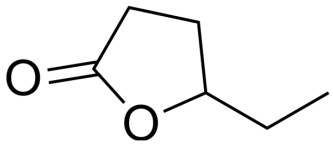
Molecular Weight: 114.14

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

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 (876.12 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	8.7612 mL	43.8059 mL	87.6117 mL
5 mM	1.7522 mL	8.7612 mL	17.5223 mL
10 mM	0.8761 mL	4.3806 mL	8.7612 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 (21.90 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (21.90 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (21.90 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

γ-Hexalactone is a gamma-lactone found in ripe fruits. γ-Hexalactone induces DNA damage and acts a substrate of paraoxonase 1 (PON1)[1][2][3].

IC_{50} & Target

Human Endogenous Metabolite

REFERENCES

[1]. E-Nose and GC-MS Reveal a Difference in the Volatile Profiles of White- and Red-Fleshed Peach Fruit. Sensors (Basel). 2018 Mar 2;18(3).

[2]. Bianchi T, et al. Investigation of the aroma of commercial peach (Prunus persica L. Batsch) types by Proton Transfer Reaction-Mass Spectrometry (PTR-MS) and sensory analysis. Food Res Int. 2017 Sep;99(Pt 1):133-146.

[3]. Shangula S, et al. PON1 increases cellular DNA damage by lactone substrates. Arch Toxicol. 2019 Jul;93(7):2035-2043.

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