(R)-(-)-1,2-Propanediol

Cat. No.: HY-Z0031

CAS No.: 4254-14-2

Molecular Formula: $C_3H_8O_2$

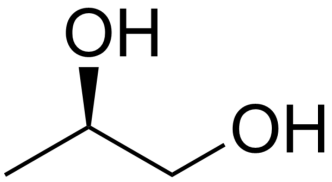
Molecular Weight: 76.09

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 (1314.23 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	13.1423 mL	65.7117 mL	131.4233 mL
5 mM	2.6285 mL	13.1423 mL	26.2847 mL
10 mM	1.3142 mL	6.5712 mL	13.1423 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 (32.86 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (32.86 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (32.86 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(R)-(-)-1,2-Propanediol is a (R)-enantiomer of 1,2-Propanediol that produced from glucose in Escherichia coli expressing NADH-linked glycerol dehydrogenase genes[1].

IC_{50} & Target

Microbial Metabolite

REFERENCES

[1]. N E Altaras, et al. Metabolic engineering of a 1,2-propanediol pathway in Escherichia coli. Appl Environ Microbiol. 1999 Mar;65(3):1180-5.

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