(S)-3,4-Dihydroxybutyric acid lithium hydrate

Cat. No.: HY-113304A

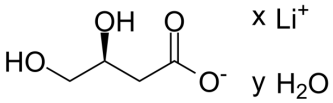
Molecular Formula: $C_4H_9LiO_5$

Molecular Weight: 144.05

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 125 mg/mL (867.75 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	6.9420 mL	34.7102 mL	69.4203 mL
5 mM	1.3884 mL	6.9420 mL	13.8841 mL
10 mM	0.6942 mL	3.4710 mL	6.9420 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: PBS
Solubility: 100 mg/mL (694.20 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

(S)-3,4-Dihydroxybutyric acid (lithium hydrate) is a normal human urinary metabolite that is excreted in increased concentration in patients with succinic semialdehyde dehydrogenase (SSADH) deficiency[1].

IC_{50} & Target	Microbial Metabolite	Human Endogenous Metabolite

REFERENCES

[1]. Shinka T, et al. Rapid and sensitive detection of urinary 4-hydroxybutyric acid and its related compounds by gas chromatography-mass spectrometry in a patient with succinic semialdehyde dehydrogenase deficiency. J Chromatogr B Analyt Technol Biomed Life Sci. 2002 Aug 25;776(1):57-63.

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

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