

## Sodium 2-hydroxybutanoate

## Chemical Properties

CAS No. : 5094-24-6

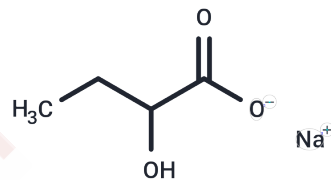
Formula: C<sub>4</sub>H<sub>7</sub>NaO<sub>3</sub>

Molecular Weight: 126.09

Store under nitrogen

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Sodium 2-hydroxybutanoate (alpha-hydroxybutyrate) is formed as a by-product of the formation of alpha-ketobutyrate via a reaction catalyzed by lactate dehydrogenase (LDH) or alpha-hydroxybutyrate dehydrogenase (alphaHBDH).
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 22.73 mg/mL (180.27 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.9308 mL	39.6542 mL	79.3084 mL
5 mM	1.5862 mL	7.9308 mL	15.8617 mL
10 mM	0.7931 mL	3.9654 mL	7.9308 mL
50 mM	0.1586 mL	0.7931 mL	1.5862 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Gall WE, et al. alpha-hydroxybutyrate is an early biomarker of insulin resistance and glucose intolerance in a nondiabetic population. PLoS One. 2010 May 28;5(5):e10883.

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