

Ethyl 3-hydroxybutyrate

Chemical Properties

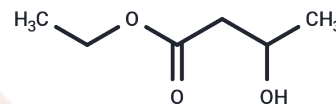
CAS No. : 5405-41-4

Formula: C₆H₁₂O₃

Molecular Weight: 132.16

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

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Ethyl 3-hydroxybutyrate, a fragrance, is found in Tribolium castaneum and wine.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 55 mg/mL (416.16 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (15.13 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.5666 mL	37.8329 mL	75.6659 mL
5 mM	1.5133 mL	7.5666 mL	15.1332 mL
10 mM	0.7567 mL	3.7833 mL	7.5666 mL
50 mM	0.1513 mL	0.7567 mL	1.5133 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

- Ortega C, et al. Fast analysis of important wine volatile compounds development and validation of a new method based on gas chromatographic-flame ionisation detection analysis of dichloromethane microextracts. J Chromatogr A. 2001 Jul 20;923(1-2):205-14.
- Jonfia-Essien WA, et al. Behavioural responses of Tribolium castaneum (Herbst) to volatiles identified from dry cocoa beans. Pak J Biol Sci. 2007 Oct 15;10(20):3549-56.

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