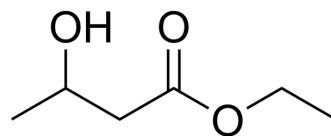


Ethyl 3-hydroxybutyrate

Cat. No.:	HY-W012701		
CAS No.:	5405-41-4		
Molecular Formula:	C ₆ H ₁₂ O ₃		
Molecular Weight:	132.16		
Target:	Others		
Pathway:	Others		
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 (756.66 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (18.92 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (18.92 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (18.92 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Ethyl 3-hydroxybutyrate is a fragrance found in wine and <i>Tribolium castaneum</i> ^{[1][2]} .
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REFERENCES

[1]. 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.

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

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