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DATASHEET

(R)-3-Hydroxybutyric acid

Product overview

Name	(R)-3-Hydroxybutyric acid
Cat No	HB4640
Purity	>98%
Description	Endogenous HDAC1, HDAC3 and HDAC4 inhibitor

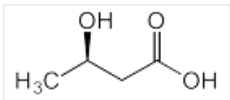
Biological Data

Biological description	HDAC1, HDAC3 and HDAC4 inhibitor. Key metabolite of the ketolytic pathway generating acetyl-CoA. Stereoselective product of D-3-hydroxybutyrate dehydrogenase. Clinically and physiologically significant stereoisomer. Energy carrier from adipocytes to peripheral tissues during fasting or exercise. Ligand of free fatty acid receptor 3 (FFAR3; GPR41) and hydroxycarboxylic acid receptor 2 (HCAR2; GPR109B). NLRP3 inflammasome inhibitor. Prevents K ⁺ -efflux and reduces ASC oligomerization and speck formation.
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Solubility & Handling

Storage instructions	Room temperature
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Molecular Weight	104.1
Chemical structure	
CAS Number	625-72-9
PubChem identifier	0
SMILES	CC(O)CC(O)=O
InChIKey	WHBMMWSBFZVSSR-GSVOUGTGSA-N
Appearance	White solid