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## DATASHEET

### (R)-3-Hydroxybutyric acid

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## Product overview

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

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## Biological Data

<b>Biological description</b>	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 (HCR2; GPR109B). NLRP3 inflammasome inhibitor. Prevents K <sup>+</sup> -efflux and reduces ASC oligomerization and speck formation.
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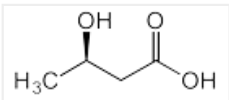
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## Solubility & Handling

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

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## Chemical Data

<b>Molecular Weight</b>	104.1
<b>Chemical structure</b>	
<b>CAS Number</b>	625-72-9
<b>PubChem identifier</b>	0
<b>SMILES</b>	CC(O)CC(=O)O
<b>InChiKey</b>	WHBMMWSBFZVSSR-GSVUUGTGSA-N
<b>Appearance</b>	White solid

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