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# **DATASHEET**

(S)-3-Hydroxybutyric acid

### **Product overview**

Name (S)-3-Hydroxybutyric acid

 Cat No
 HB4641

 Purity
 >98%

**Description** Endogenous HDAC1, HDAC3 and HDAC4 inhibitor

## **Biological Data**

**Biological description** Physiologically insignificant stereoisomer of (R)-3-Hydroxybutyric acid, a key metabolite of the ketolytic

pathway. Anticonvulsant. Endogenous inhibitor of histone deacetylases (HDACs) 1, 3 and 4. 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.

## **Solubility & Handling**

Storage instructions Room temperature

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

**Shipping Conditions** Stable for ambient temperature shipping. Follow storage instructions on receipt.

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 Chemical structure 104.1 OH O H<sub>3</sub>C OH 6168-83-8

CAS Number

PubChem identifier

 $\label{eq:continuous} \textbf{SMILES} \qquad \qquad \textbf{C[C@H](O)CC(O)=O}$ 

InChiKey WHBMMWSBFZVSSR-VKHMYHEASA-N

Appearance White solid