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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 dehydreogenase. 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.

Solubility & Handling

Storage instructions Storage of solutions

Room temperature

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

CAS Number PubChem identifier

SMILES CC(O)CC(O)=O

InChiKey WHBMMWSBFZVSSR-GSVOUGTGSA-N White solid

625-72-9

Appearance