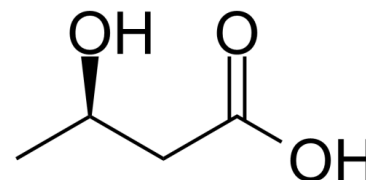


Data Sheet

| | |
|--------------------|--|
| Product Name: | (R)-3-Hydroxybutanoic acid |
| Cat. No.: | CS-0044101 |
| CAS No.: | 625-72-9 |
| Molecular Formula: | C ₄ H ₈ O ₃ |
| Molecular Weight: | 104.10 |
| Target: | Endogenous Metabolite |
| Pathway: | Metabolic Enzyme/Protease |
| Solubility: | H ₂ O : ≥ 25 mg/mL (240.15 mM) |



BIOLOGICAL ACTIVITY:

(R)-3-Hydroxybutanoic acid is a metabolite, and converted from acetoacetic acid catalyzed by 3-hydroxybutyrate dehydrogenase. **In Vitro:** (R)-3-Hydroxybutanoic acid (D-3-Hydroxybutyric acid) is a metabolite, and converted from acetoacetic acid. Enhanced hepatic fatty acid oxidation results in the increased production of acetoacetic acid which is in turn converted to (R)-3-Hydroxybutanoic acid by a reaction catalyzed by 3-hydroxybutyrate dehydrogenase^[1].

References:

[1]. Ide T. Enzymatic-HPLC method to analyze D-3-hydroxybutyric acid in rat serum. Biosci Biotechnol Biochem. 2010;74(8):1578-82.

CAIndexNames:

Butanoic acid, 3-hydroxy-, (3R)-

SMILES:

C[C@@H](O)CC(=O)O

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

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