
Product Data Sheet

Product Name: (R)-3-Hydroxyisobutyric acid

Cat. No.: GC30661

Chemical Properties

Cas. No. 1910-47-0

SMILES O=C(O)[C@H](C)COFormula $C_4H_8O_3$ M.Wt 104.1

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

(R)-3-Hydroxyisobutyric acid is an intermediate in the pathways of l-valine and thymine and plays an important role in the diagnosis of the very rare inherited metabolic diseases 3-hydroxyisobutyric aciduria and methylmalonic semialdehyde dehydrogenase deficiency.

[1]. Podebrad F, et al. Stereodifferentiation of 3-hydroxyisobutyric- and 3-aminoisobutyric acid in human urine by enantioselective multidimensional capillary gas chromatography-mass spectrometry. Clin Chim Acta. 2000 Feb 25;292(1-2):93-105.

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

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