

Product Data Sheet

Product Name: β -hydroxy Pyruvic Acid

Cat. No.: GC18567

Chemical Properties

Cas. No. 1113-60-6

Chemical Name 3-hydroxy-2-oxo-propanoic acid

SMILES OC(C(CO)=O)=O

Formula $C_3H_4O_4$

M.Wt 104.1

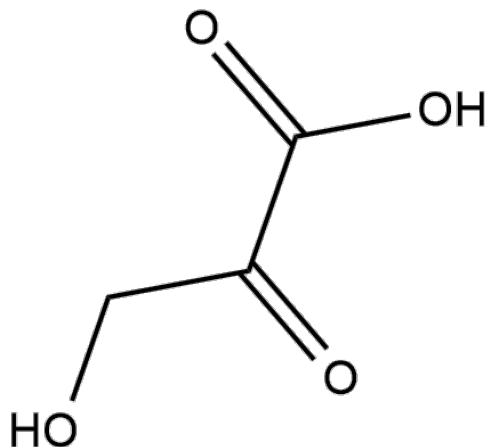
Solubility 10mg/mL in PBS, pH7.2

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

β -hydroxy Pyruvic acid is a metabolite in the process of photorespiration in plants.[1] In peroxisomes, hydroxypyruvate is reduced to glycerate by NADH.[2] [3]

Reference:

[1]. Stafford, H.A., Magaldi, A., and Vennesland, B. The enzymatic reduction of hydroxypyruvic acid

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

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to D-glyceric acid in higher plants. J. Biol. Chem. 207(2), 621-629 (1954).

[2]. Douce, R., and Heldt, H.-W. Photorespiration. Photosynthesis: Physiology and Metabolism 9, 115-136 (2000).

[3]. Givan, C.V., and Kleczkowski, L.A. The enzymic reduction of glyoxylate and hydroxypyruvate in leaves of higher plants. Plant Physiol. 100(2), 552-556 (1992).

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