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**Product Data Sheet**

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Product Name: L-Glyceric acid

Cat. No.: GC60224

**Chemical Properties**

Cas. No. 28305-26-2

SMILES O=C(O)[C@@H](O)COFormula  $C_3H_6O_4$ 

M.Wt 106.08

Solubility DMSO : 250 mg/mL (2356.71 mM; Need ultrasonic)

Storage

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**

L-Glyceric acid is a mainly urinary metabolite accumulating in rare inherited metabolic disease L-glyceric aciduria. L-Glyceric acid can be used to diagnose primary hyperoxaluria type 2 (PH2). L-Glyceric acid excretion to distinguish PH1 from PH2[1][2].

Primary hyperoxaluria type 2 (PH2), also called L-glyceric aciduria. The metabolic defect is due to deficiencies of D-glycerate dehydrogenase and glyoxylate reductase, leading to excretion of L-Glyceric acid, and L-Glyceric acid is the cornerstone for the diagnosis of PH2[1][2].

[1]. Mohamed S Rashed, et al. Chiral liquid chromatography tandem mass spectrometry in the determination of the configuration of glyceric acid in urine of patients with D-glyceric and L-glyceric acidurias. Biomed Chromatogr. 2002 May;16(3):191-8. [2]. Bernd Hoppe, et al. A United States survey on diagnosis, treatment, and outcome of primary hyperoxaluria. Pediatr Nephrol. 2003 Oct;18(10):986-91.

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

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