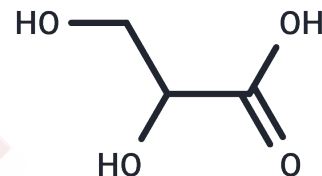


## DL-Glyceric Acid

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 473-81-4  |
| Formula:          | C <sub>3</sub> H <sub>6</sub> O <sub>4</sub>  |
| Molecular Weight: | 106.08  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|               |   |
|---------------|---|
| Description   | DL-Glyceric Acid is an endogenous metabolite that serves as a substrate for Pseudomonas aeruginosa's 3-hydroxyisobutyrate dehydrogenase (PA0743), catalyzing the reaction (K <sub>m</sub> = 19.8 mM). |
| Targets(IC50) | Endogenous Metabolite, Dehydrogenase  |

## Solubility Information

|            |   |
|------------|---|
| Solubility | DMSO: 250 mg/mL (2356.71 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 9.4268 mL | 47.1342 mL | 94.2685 mL |
| 5 mM  | 1.8854 mL | 9.4268 mL  | 18.8537 mL |
| 10 mM | 0.9427 mL | 4.7134 mL  | 9.4268 mL  |
| 50 mM | 0.1885 mL | 0.9427 mL  | 1.8854 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Rashed MS, 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.

Sato S, et, al. Microbial resolution of DL-glyceric acid for L-glyceric acid production with newly isolated bacterial strains. J Biosci Bioeng. 2015 May;119(5):554-7.

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