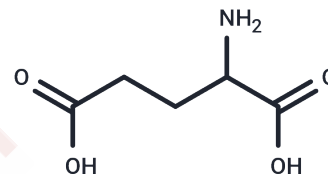


DL-Glutamic acid

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 617-65-2 |
| Formula: | C ₅ H ₉ NO ₄ |
| Molecular Weight: | 147.13 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA. |



Biological Description

| | |
|---------------|--|
| Description | DL-Glutamic acid is the conjugate acid of glutamic acid and serves as a fundamental metabolite in biological systems. As a racemic mixture, it consists of equal parts D-glutamic acid and L-glutamic acid. Regarding physical properties, DL-glutamic acid exhibits superior physicochemical stability compared to the alpha and beta polymorphs of L-glutamic acid. It is widely utilized in biochemical research as a buffering agent, a substrate for nutritional studies, and a model for investigating the impact of chirality on the structural and phase-transition behavior of amino acids. |
| Targets(IC50) | Amino Acids and Derivatives, Endogenous Metabolite |

Solubility Information

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

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 6.7967 mL | 33.9836 mL | 67.9671 mL |
| 5 mM | 1.3593 mL | 6.7967 mL | 13.5934 mL |
| 10 mM | 0.6797 mL | 3.3984 mL | 6.7967 mL |
| 50 mM | 0.1359 mL | 0.6797 mL | 1.3593 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

F M S Victor, et al. Pressure-induced phase transitions in DL-glutamic acid monohydrate crystal. Spectrochim Acta A Mol Biomol Spectrosc. 2020 Apr 5;230:118059.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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