# Data Sheet (Cat.No.TN3877)

TargetMol

## DL-Asparagine

### Chemical Properties

CAS No. : 3130-87-8

Formula: C4H8N2O3

Molecular Weight: 132.12

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-Asparagine is a racemic mixture consisting of L-asparagine and its enantiomeric form, belonging to the class of amino acids. DL-Asparagine is commonly used as a nitrogen source or nutritional supplement in culture media to support the growth and metabolic studies of microorganisms such as bacteria. |
| Targets(IC50) | Endogenous Metabolite |

### Solubility Information

| | |
|---|---|
| Solubility | H2O: 40 mg/mL (302.76 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 7.5689 mL | 37.8444 mL | 75.6888 mL |
| 5 mM | 1.5138 mL | 7.5689 mL | 15.1378 mL |
| 10 mM | 0.7569 mL | 3.7844 mL | 7.5689 mL |
| 50 mM | 0.1514 mL | 0.7569 mL | 1.5138 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

Nabila Moussa Slimane, et al. dl-Asparaginium nitrate. Acta Crystallogr Sect E Struct Rep Online. 2009 Aug 19;65 (Pt 9):o2180-1.

Argentova V, et al. Effects of Succinic Acid Supplementation on Stable Cell Line Growth, Aggregation, and IgG and IgA Production. Curr Pharm Biotechnol. 2020;21(10):990-996.

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