# N-Carbamoyl-DL-aspartic acid

**Cat. No.:** HY-128425

**CAS No.:** 923-37-5

**Molecular Formula:** $C_5H_8N_2O_5$

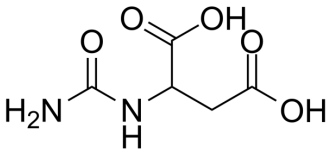
**Molecular Weight:** 176.13

**Target:** Endogenous Metabolite

**Pathway:** Metabolic Enzyme/Protease

**Storage:**

| | | |
|---|---|---|
| Powder | -20°C | 3 years |
| | 4°C | 2 years |
| In solvent | -80°C | 2 years |
| | -20°C | 1 year |



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 83.33 mg/mL (473.12 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 5.6776 mL | 28.3881 mL | 56.7762 mL |
| | 5 mM | 1.1355 mL | 5.6776 mL | 11.3552 mL |
| | 10 mM | 0.5678 mL | 2.8388 mL | 5.6776 mL |

Please refer to the solubility information to select the appropriate solvent.

**In Vivo**

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (11.81 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (11.81 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (11.81 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

N-Carbamoyl-DL-aspartic acid (Ureidosuccinic acid) is a precursor of nucleic acid pyrimidines[1].

## REFERENCES

[1]. ANDERSON EP, et al. Ureidosuccinic acid as a precursor of nucleic acid pyrimidines in normal and tumor-bearing mice. J Biol Chem. 1955 Apr;213(2):625-33.

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

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