

4-Hydroxypyrrolidine-2-carboxylic acid

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 6912-67-0 |
| Formula: | C ₅ H ₉ NO ₃ |
| Molecular Weight: | 131.13 |
| 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

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|---------------|---|
| Description | 4-Hydroxypyrrolidine-2-carboxylic acid (4-hydroxyproline) is a non-protein amino acid and endogenous metabolite present in collagen that modulates collagen elasticity and can be used as a diagnostic marker for bone conversion and liver fibrosis. |
| Targets(IC50) | Amino Acids and Derivatives,Endogenous Metabolite |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 7.626 mL | 38.1301 mL | 76.2602 mL |
| 5 mM | 1.5252 mL | 7.626 mL | 15.252 mL |
| 10 mM | 0.7626 mL | 3.813 mL | 7.626 mL |
| 50 mM | 0.1525 mL | 0.7626 mL | 1.5252 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

- Zhao X, Hoesl CE, Hoefner GC, Wanner KT. Synthesis and biological evaluation of new GABA-uptake inhibitors derived from proline and from pyrrolidine-2-acetic acid. *Eur J Med Chem.* 2005 Mar;40(3):231-47.
- Sanavi-Khoshnod, R., Zamani, H.A., Joz-Yarmohammadi, F. et al. A New Highly Selective Neodymium(III) Polyvinylchloride Membrane Electrode Based on 4-Hydroxypyrrolidine-2-Carboxylic Acid as an Active Material. *J Anal Chem* 73, 71-81 (2018).

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