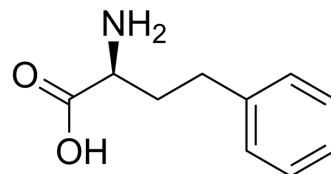


L-Homophenylalanine

| | | | |
|--------------------|---|-------|---------|
| Cat. No.: | HY-I1029 | | |
| CAS No.: | 943-73-7 | | |
| Molecular Formula: | C ₁₀ H ₁₃ NO ₂ | | |
| Molecular Weight: | 179.22 | | |
| Target: | Biochemical Assay Reagents | | |
| Pathway: | Others | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 2 years |
| | | -20°C | 1 year |



SOLVENT & SOLUBILITY

In Vitro

H₂O : 3.33 mg/mL (18.58 mM; ultrasonic and adjust pH to 12 with NaOH)

| Preparing Stock Solutions | Solvent Concentration | Mass | | |
|---------------------------|--------------------------|-----------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| | 1 mM | 5.5797 mL | 27.8987 mL | 55.7973 mL |
| | 5 mM | 1.1159 mL | 5.5797 mL | 11.1595 mL |
| | 10 mM | 0.5580 mL | 2.7899 mL | 5.5797 mL |

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

BIOLOGICAL ACTIVITY

Description

L-Homophenylalanine is a biochemical reagent that can be used as a biological material or organic compound for life science related research.

In Vitro

L-Homophenylalanine is used as a precursor in the pharmaceutical industry for the production of angiotensin-converting enzyme (ACE) and R-(-)-Homophenylalanin-ethylenester. It is also involved in the synthesis of NEPA [(S,S)-N-(1-Ethoxycarbonyl-3-phenylpropyl)alanine], which is a key intermediate to prepare the ACE-inhibitors: enalapril, delapril, quinapril and ramipril. It acts as an anti-tumor reagent.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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

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