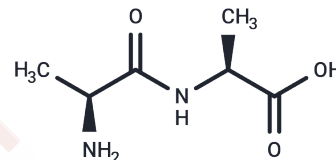


## H-Ala-Ala-OH

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 1948-31-8   |
| Formula:          | C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> O <sub>3</sub>  |
| Molecular Weight: | 160.17  |
| Storage:          | Keep away from moisture<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br><small>Actual storage temperature shall be subject to the COA.</small> |



## Biological Description

|               |  |
|---------------|--|
| Description   | H-Ala-Ala-OH (L-Alanyl-L-alanine) is a dipeptide compound that can be absorbed by Caco-2 cells and induce cytoplasmic acidification, serving as a model for studying peptide conformational changes. |
| Targets(IC50) | Others,Amino Acids and Derivatives   |

## Solubility Information

|            |  |
|------------|--|
| Solubility | DMSO: 180 mg/mL (1123.81 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 6.2434 mL | 31.2168 mL | 62.4337 mL |
| 5 mM  | 1.2487 mL | 6.2434 mL  | 12.4867 mL |
| 10 mM | 0.6243 mL | 3.1217 mL  | 6.2434 mL  |
| 50 mM | 0.1249 mL | 0.6243 mL  | 1.2487 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

Thwaites D T, McEwan G T A, Brown C D A, et al. L-alanine absorption in human intestinal Caco-2 cells driven by the proton electrochemical gradient[J]. The Journal of membrane biology, 1994, 140: 143-151.

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