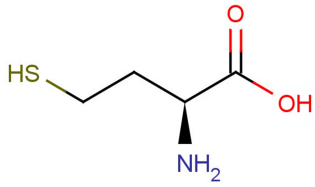
# Data Sheet (Cat.No.T19392)

L-Homocysteine

## Chemical Properties




| | |
|---|---|
| CAS No.: | 6027-13-0 |
| Formula: | C4H9NO2S |
| Molecular Weight: | 135.18 |
| Appearance: | N/A |
| Storage: | 0-4℃ for short term (days to weeks), or -20℃ for long term (months). |

## Biological Description

| | |
|---|---|
| Description | L-Homocysteine induces upregulation of cathepsin V that mediates vascular endothelial inflammation in hyperhomocysteinaemia. L-Homocysteine, a homocysteine metabolite, is a homocysteine that has L configuration. |
| Targets($IC_{50}$) | Human Endogenous Metabolite: None |

## Solubility Information

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|---|---|
| Solubility | < 1 mg/ml refers to the product slightly soluble or insoluble |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 7.398 mL | 36.988 mL | 73.975 mL |
| 5 mM | 1.48 mL | 7.398 mL | 14.795 mL |
| 10 mM | 0.74 mL | 3.699 mL | 7.398 mL |
| 50 mM | 0.148 mL | 0.74 mL | 1.48 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Finkelstein JD, et al. Homocysteine. Int J Biochem Cell Biol. 2000 Apr;32(4):385-9.
2. Leng YP, et al. l-Homocysteine-induced cathepsin V mediates the vascular endothelial inflammation in hyperhomocysteinaemia. Br J Pharmacol. 2018 Apr;175(8):1157-1172.

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