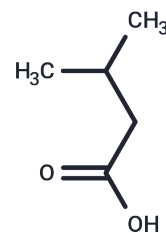


Isovaleric acid

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 503-74-2 |
| Formula: | C ₅ H ₁₀ O ₂ |
| Molecular Weight: | 102.13 |
| 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

| | |
|---------------|--|
| Description | Isovaleric acid (Delphinic acid) is a naturally occurring aroma compound found in Bartlett pear brandies, vanilla beans, rape-honey, and banana. |
| Targets(IC50) | Endogenous Metabolite, AMPK, PKA |

Solubility Information

| | |
|------------|--|
| Solubility | H ₂ O: 20 mg/mL (195.83 mM), Sonication is recommended. DMSO: 250 mg/mL (2447.86 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 9.7914 mL | 48.9572 mL | 97.9144 mL |
| 5 mM | 1.9583 mL | 9.7914 mL | 19.5829 mL |
| 10 mM | 0.9791 mL | 4.8957 mL | 9.7914 mL |
| 50 mM | 0.1958 mL | 0.9791 mL | 1.9583 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

Blasioli S, et al. Identification of volatile markers in potato brown rot and ring rot by combined GC-MS and PTR-MS techniques: study on in vitro and in vivo samples. J Agric Food Chem. 2014 Jan 15;62(2):337-47.

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