

## DL-Isoleucine

## Chemical Properties

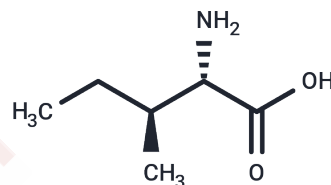
CAS No. : 443-79-8

Formula: C<sub>6</sub>H<sub>13</sub>NO<sub>2</sub>

Molecular Weight: 131.17

Storage: Keep away from direct sunlight, Store under nitrogen  
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   | DL-Isoleucine exhibits anti-glycation activity in RAW 264.7 cells and exhibits millimolar-level cytotoxicity against SW620, CACO2, SW480, and fibroblast cells. |
| Targets(IC50) | Apoptosis, Amino Acids and Derivatives  |

## Solubility Information

|            |   |
|------------|---|
| Solubility | H <sub>2</sub> O: 15 mg/mL (114.36 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 7.6237 mL | 38.1185 mL | 76.2369 mL |
| 5 mM  | 1.5247 mL | 7.6237 mL  | 15.2474 mL |
| 10 mM | 0.7624 mL | 3.8118 mL  | 7.6237 mL  |
| 50 mM | 0.1525 mL | 0.7624 mL  | 1.5247 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

Rêgo FSC, et al. High pressure Raman scattering of DL-isoleucine crystals and DFT calculations. Spectrochim Acta A Mol Biomol Spectrosc. 2019 May 5;214:207-215.

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