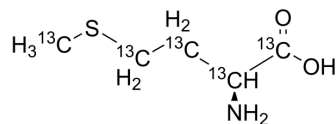


## L-Methionine-<sup>13</sup>C<sub>5</sub>

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-N0326S5   |
| <b>CAS No.:</b>           | 202326-57-6  |
| <b>Molecular Formula:</b> | <sup>13</sup> C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> S   |
| <b>Molecular Weight:</b>  | 154.17   |
| <b>Target:</b>            | Endogenous Metabolite  |
| <b>Pathway:</b>           | Metabolic Enzyme/Protease  |
| <b>Storage:</b>           | 4°C, sealed storage, away from moisture and light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light) |



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 50 mg/mL (324.32 mM; Need ultrasonic)

| Concentration | Mass      |            |            |
|---------------|-----------|------------|------------|
|               | 1 mg      | 5 mg       | 10 mg      |
| 1 mM          | 6.4863 mL | 32.4317 mL | 64.8635 mL |
| 5 mM          | 1.2973 mL | 6.4863 mL  | 12.9727 mL |
| 10 mM         | 0.6486 mL | 3.2432 mL  | 6.4863 mL  |

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

### BIOLOGICAL ACTIVITY

#### Description

L-Methionine-<sup>13</sup>C<sub>5</sub> is the <sup>13</sup>C-labeled L-Methionine. L-Methionine is the L-isomer of Methionine, an essential amino acid for human development. Methionine acts as a hepatoprotectant.

#### In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA