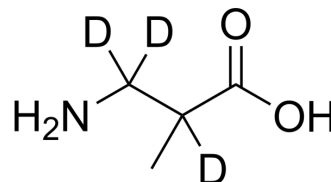


3-Amino-2-methylpropanoic acid-d₃

| | | | |
|---------------------------|--------------------------------------------------------------|-------|----------|
| Cat. No.: | HY-W012974S | | |
| CAS No.: | 1219803-65-2 | | |
| Molecular Formula: | C ₄ H ₆ D ₃ NO ₂ | | |
| Molecular Weight: | 106.14 | | |
| Target: | Endogenous Metabolite | | |
| Pathway: | Metabolic Enzyme/Protease | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



BIOLOGICAL ACTIVITY

| | |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | 3-Amino-2-methylpropanoic acid-d ₃ is the deuterium labeled 3-Amino-2-methylpropanoic acid[1]. 3-Amino-2-methylpropanoic acid could induce browning of white fat and hepatic β-oxidation and is inversely correlated with cardiometabolic risk factors[2]. |
| 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 ^[1] . 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 Feb;53(2):211-216.
- [2]. Roberts LD, et al. β-Aminoisobutyric acid induces browning of white fat and hepatic β-oxidation and is inversely correlated with cardiometabolic risk factors. *Cell Metab*. 2014 Jan 7;19(1):96-108.

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

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