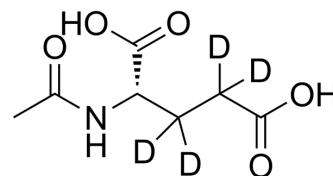


## N-Acetyl-L-glutamic acid-d<sub>4</sub>

Cat. No.:	HY-W015240S1
Molecular Formula:	C <sub>7</sub> H <sub>7</sub> D <sub>4</sub> NO <sub>5</sub>
Molecular Weight:	193.19
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	N-Acetyl-L-glutamic acid-d <sub>4</sub> is the deuterium labeled N-Acetyl-L-glutamic acid[1]. N-Acetyl-L-glutamic acid, a N-acyl-L-amino acid, is a component of animal cell culturing media. N-Acetyl-L-glutamic acid is a metabolite of <i>Saccharomyces cerevisiae</i> and human[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 <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 Feb;53(2):211-216.
- [2]. M Hashimoto, et al. Animal cell culturing media containing N-acetyl-L-glutamic acid. Patent.

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

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