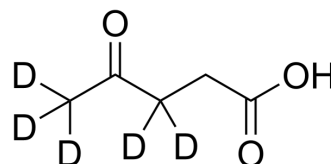


## Levulinic acid-d<sub>5</sub>

Cat. No.:	HY-Y0839S
CAS No.:	1206185-52-5
Molecular Formula:	C <sub>5</sub> H <sub>3</sub> D <sub>5</sub> O <sub>3</sub>
Molecular Weight:	121.15
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Levulinic acid-d <sub>5</sub> is the deuterium labeled Levulinic acid[1]. Levulinic acid is a precursor for the synthesis of biofuels, such as ethyl levulinate[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]. Pileidis FD, et al. Levulinic Acid Biorefineries: New Challenges for Efficient Utilization of Biomass. *ChemSusChem*. 2016 Mar 21;9(6):562-82.

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

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