

Product Data Sheet

Product Name: Levulinic acid-d5

Cat. No.: GC72737

Chemical Properties

Cas. No. 1206185-52-5

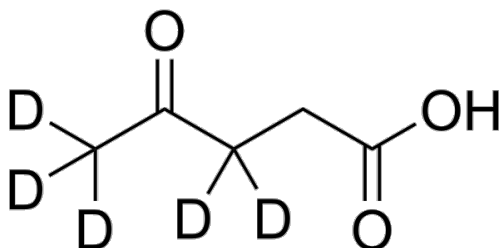
Formula $C_5H_3D_5O_3$ M.Wt 121.15

Solubility Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Levulinic acid-d5 is the deuterium labeled Levulinic acid[1]. Levulinic acid is a precursor for the synthesis of biofuels, such as ethyl levulinate[2].

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].

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

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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.

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