
Product Data Sheet

Product Name: Isovaleric acid-d9

Cat. No.: GC63581

Chemical Properties

Cas. No. 344298-81-3

Formula C₅H₉O₂ M.Wt 111.19

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°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

Isovaleric acid-d9 is the deuterium labeled Isovaleric acid. Isovaleric acid is a natural fatty acid and known to effect on neonatal death and possible Jamaican vomiting sickness in human.

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].

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216. [2]. Ackman RG, et al. Birthweights in the Faroe Islands: possible role of isovaleric acid. *J Intern Med.* 1989 Feb;225(2):73-5.

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

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