

Product Data Sheet

Product Name: Benzoic acid-2,3,4,5,6-d5

Cat. No.: GD05283

Chemical Properties

Cas. No. 1079-02-3

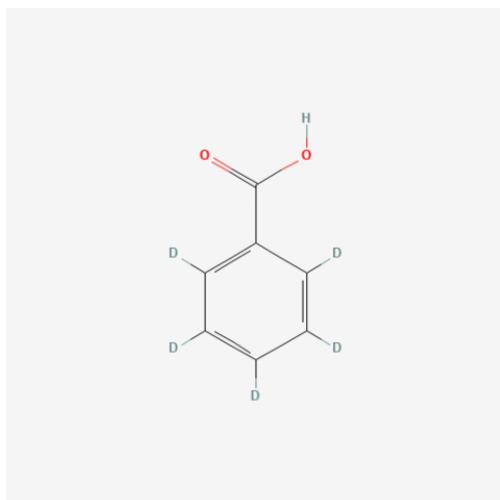
Formula M.Wt

Solubility DMSO : 125 mg/mL (983.09 mM; Need ultrasonic) Storage 2-8°C argon filling

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

Benzoic acid-d5 is a deuterium substitute for Benzoic acid. Benzoic acid is an aromatic alcohol that occurs naturally in many plants and is a common additive in food, beverages, cosmetics and other products. Benzoic acid can act as a preservative by inhibiting bacteria and fungi[1][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

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

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drugs^[1].

Benzoic acid-d5 can be used for labeling and quantifying the glycopeptides of human serum IgG (hIgG)^[3].

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