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**Product Data Sheet**

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Product Name: Hippuric acid-d5

Cat. No.: GC67952

**Chemical Properties**

Cas. No. 53518-98-2

Formula C<sub>9</sub>H<sub>4</sub>D<sub>5</sub>NO<sub>3</sub>

M.Wt 184.2

Solubility DMSO : 250 mg/mL (1357.22 mM; Need ultrasonic) 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**

Hippuric acid-d5 (2-Benzamidoacetic acid-d5) is the deuterium labeled Hippuric acid. Hippuric Acid (2-Benzamidoacetic acid), an acyl glycine produced by the conjugation of benzoic acid and glycine, is a normal component in urine as a metabolite of aromatic compounds from food.

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>.

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.

[2]. Niwa T, et al. Organic acids and the uremic syndrome: protein metabolite hypothesis in the progression of chronic renal failure. *Semin Nephrol.* 1996 May;16(3):167-82.

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

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