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**Product Data Sheet**

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Product Name: p-Coumaric acid-d6

Cat. No.: GC74239

**Chemical Properties**

Cas. No. 2708298-33-1

Formula C<sub>9</sub>H<sub>2</sub>D<sub>6</sub>O<sub>3</sub>

M.Wt 170.19

Solubility DMSO : 100 mg/mL (587.58 mM; Need ultrasonic)

Storage -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**

p-Coumaric acid-d6 is the deuterium labeled p-Coumaric acid . p-Coumaric acid is the abundant isomer of cinnamic acid which has antitumor and anti-mutagenic activities[1][2].

Stable heavy isotopes of drogen, 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].

References:

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

[2]. Jaganathan SK, et al. Events associated with apoptotic effect of p-Coumaric acid in HCT-15 colon cancer cells. World J Gastroenterol. 2013 Nov 21;19(43):7726-34.

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

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