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**Product Data Sheet**

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Product Name: Hydroxytyrosol-d5

Cat. No.: GC63765

**Chemical Properties**

Cas. No.

Formula C<sub>8</sub>H<sub>5</sub>D<sub>5</sub>O<sub>3</sub>

M.Wt

159.19

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**

Hydroxytyrosol-d5 (DOPET-d5) is the deuterium labeled Hydroxytyrosol. Hydroxytyrosol (DOPET) is a phenolic compound drawn from the olive tree and its leaves with anti-oxidant, anti-atherogenic, anti-thrombotic, antimicrobial, anti-inflammatory and anti-tumour effects[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 drugs[1].

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216. [2]. Vilaplana-PÉrez C, et al. Hydroxytyrosol and potential uses in cardiovascular diseases, cancer, and AIDS. *Front Nutr.* 2014 Oct 27;1:18.;Martínez L, et al. Hydroxytyrosol: Health Benefits and Use as Functional Ingredient in Meat. *Medicines (Basel).* 2018 Jan 23;5(1).

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

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