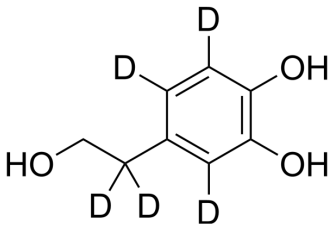
Hydroxytyrosol-d_5

Cat. No.:	HY-N0570S1
Molecular Formula:	$C_8H_5D_5O_3$
Molecular Weight:	159.19
Target:	Endogenous Metabolite; Bacterial; Fungal
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Hydroxytyrosol-d_5 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].
In Vitro	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]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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).

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