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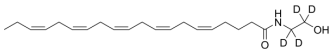
Eicosapentaenoyl ethanolamide-d_4

Cat. No.:	HY-124089S
CAS No.:	946524-41-0
Molecular Formula:	$C_{22}H_{31}D_4NO_2$
Molecular Weight:	349.54
Target:	Cannabinoid Receptor; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Neuronal Signaling; Others
Storage:	Solution, -20°C, 2 years



BIOLOGICAL ACTIVITY

Description	Eicosapentaenoyl ethanolamide-d_4 is the deuterium labeled Eicosapentaenoyl ethanolamide. Eicosapentaenoyl ethanolamide, an omega-3 fatty acid, is one of N-acylethanolamines (NAEs). Eicosapentaenoyl ethanolamide is cannabinoid CB1/CB2 receptor agonist. Eicosapentaenoyl ethanolamide acts as a metabolic signal. Eicosapentaenoyl ethanolamide inhibits dietary restriction (DR)-induced lifespan extension in wild type animals and suppresses lifespan extension in a TOR pathway mutant[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]. Mark Lucanic, et al. N-acylethanolamine signalling mediates the effect of diet on lifespan in Caenorhabditis elegans. Nature. 2011 May 12;473(7346):226-9.

[3]. Iain Brown, et al. Cannabinoid receptor-dependent and -independent anti-proliferative effects of omega-3 ethanolamides in androgen receptor-positive and -negative prostate cancer cell lines. Carcinogenesis. 2010 Sep;31(9):1584-91.

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