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Produktinformation



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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anandamide-d₁₁

Cat. No.:	HY-10863S1
CAS No.:	2260669-86-9
Molecular Formula:	C ₂₂ H ₂₆ D ₁₁ NO ₂
Molecular Weight:	358.6
Target:	Cannabinoid Receptor; GPR55; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Neuronal Signaling; Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Anandamide-d ₁₁ is deuterium labeled Anandamide. Anandamide is an immune modulator in the central nervous system acts via not only cannabinoid receptors (CB1 and CB2) but also other targets (e.g., GPR18/GPR55)[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 ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Malek N, et al. Anandamide, Acting via CB2 Receptors, Alleviates LPS-Induced Neuroinflammation in Rat Primary Microglial Cultures. *Neural Plast.* 2015;2015:130639.
- [2]. Troy-Fioramonti S, et al. Acute activation of cannabinoid receptors by Anandamide reduces gastrointestinal motility and improves postprandial glycemia in mice. *Diabetes.* 2015 Mar;64(3):808-18.
- [3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-223.

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

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