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Zuschläge

- Mindermengenzuschlag
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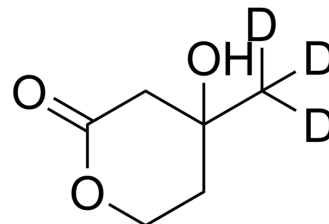
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DL-Mevalonolactone-d₃

Cat. No.:	HY-107855S1
CAS No.:	61219-76-9
Molecular Formula:	C ₆ H ₇ D ₃ O ₃
Molecular Weight:	133.16
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	DL-Mevalonolactone-d ₃ is the deuterium labeled DL-Mevalonolactone[1]. DL-Mevalonolactone ((±)-Mevalonolactone; Mevalolactone) is the δ-lactone form of mevalonic acid, a precursor in the mevalonate pathway. DL-Mevalonolactone (Mevalonolactone) decreases mitochondrial membrane potential (Ψ _m), NAD(P)H content and the capacity to retain Ca ²⁺ in the brain, besides inducing mitochondrial swelling[2][3].
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 Feb;53(2):211-216.
- [2]. Domingos SR, et al. On the structural intricacies of a metabolic precursor: Direct spectroscopic detection of water-induced conformational reshaping of mevalonolactone. *J Chem Phys*. 2017 Sep 28;147(12):124310.
- [3]. Cecatto C, et al. Mevalonolactone disrupts mitochondrial functions and induces permeability transition pore opening in rat brain mitochondria: Implications for the pathogenesis of mevalonic aciduria. *Neurochem Int*. 2017 Sep;108:133-145.

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

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