

Dodecanedioic acid-d₂₀

Cat. No.:	HY-W012241S
CAS No.:	89613-32-1
Molecular Formula:	C ₁₂ H ₂ D ₂₀ O ₄
Molecular Weight:	250.42
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	<div> Powder -20°C 3 years </div> <div> 4°C 2 years </div> <div> In solvent -80°C 6 months </div> <div> -20°C 1 month </div>



BIOLOGICAL ACTIVITY

Description	Dodecanedioic acid-d ₂₀ is the deuterium labeled Dodecanedioic acid[1]. Dodecanedioic acid (C12) is a dicarboxylic acid with a metabolic pathway intermediate to those of lipids and carbohydrates[2].
In Vitro	<p>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].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.
- [2]. Greco AV, et al. The metabolic effect of dodecanedioic acid infusion in non-insulin-dependent diabetic patients. Nutrition. 1998 Apr;14(4):351-7.

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

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