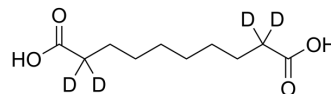


Decanedioic acid-d₄

Cat. No.:	HY-W014787S
CAS No.:	339080-77-2
Molecular Formula:	C ₁₀ H ₁₄ D ₄ O ₄
Molecular Weight:	206.27
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Decanedioic acid-d ₄ is the deuterium labeled Decanedioic acid[1]. Decanedioic acid, a normal urinary acid, is found to be associated with carnitine-acylcarnitine translocase deficiency and medium chain acyl-CoA dehydrogenase deficiency[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 Feb;53(2):211-216.
- [2]. Bertuzzi A, et al. Sebacic acid binding to human plasma albumin. *Biochem Pharmacol*. 1993 Feb 9;45(3):697-702.

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

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