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Produktinformation



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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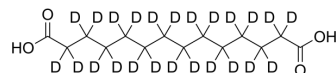
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Tetradecanedioic acid-d₂₄

Cat. No.:	HY-W011819S
CAS No.:	130348-88-8
Molecular Formula:	C ₁₄ H ₂ D ₂₄ O ₄
Molecular Weight:	282.5
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Tetradecanedioic acid-d₂₄ is the deuterium labeled Tetradecanedioic acid[1]. Tetradecanedioic acid is an endogenous metabolite and belongs to the class of organic compounds known as long-chain fatty acids. Tetradecanedioic acid can act as a candidate biomarker for organic anion-transporting polypeptide mediated agent-agent interactions[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]. Santockyte R, et al. LC-MS/MS bioanalysis of plasma 1, 14-tetradecanedioic acid and 1, 16-hexadecanedioic acid as candidate biomarkers for organic anion-transporting polypeptide mediated drug-drug interactions. *Bioanalysis*. 2018 Sep 1;10(18):1473-1485.

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

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