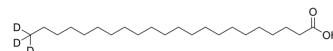


## Docosanoic acid-d<sub>3</sub>

Cat. No.:	HY-W013049S3		
CAS No.:	1193721-67-3		
Molecular Formula:	C <sub>22</sub> H <sub>41</sub> D <sub>3</sub> O <sub>2</sub>		
Molecular Weight:	343.6		
Target:	Endogenous Metabolite; Isotope-Labeled Compounds		
Pathway:	Metabolic Enzyme/Protease; Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

Description	Docosanoic acid-d <sub>3</sub> is the deuterium labeled Docosanoic acid. Docosanoic acid is poorly absorbed, and a cholesterol-raising saturated fatty acid in humans.
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<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

- [1]. Cater NB, et al. Behenic acid is a cholesterol-raising saturated fatty acid in humans. Am J Clin Nutr. 2001 Jan;73(1):41-4.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

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

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