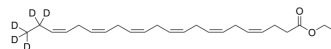


## Docosahexaenoic acid ethyl ester-d5-1

Cat. No.:	HY-107343S1
CAS No.:	159146-01-7
Molecular Formula:	C <sub>24</sub> H <sub>31</sub> D <sub>5</sub> O <sub>2</sub>
Molecular Weight:	361.57
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Docosahexaenoic acid ethyl ester-d5-1 is the deuterium labeled Docosahexaenoic acid ethyl ester. Docosahexaenoic acid ethyl ester (Ethyl docosahexaenoate) is a 90% concentrated ethyl ester of docosahexaenoic acid manufactured from the microalgal oil. Docosahexaenoic acid ethyl ester enhances 6-hydroxydopamine-induced neuronal damage by induction of lipid peroxidation in mouse striatum. Docosahexaenoic acid (DHA) is a key component of the cell membrane, and its peroxidation is inducible due to the double-bond chemical structure. Docosahexaenoic acid has neuroprotective effects<sup>[1][2][3]</sup>.

### REFERENCES

- [1]. Dahms I, et al. Safety of docosahexaenoic acid (DHA) administered as DHA ethyl ester in a 9-month toxicity study in dogs. *Food Chem Toxicol.* 2016;92:50-57.
- [2]. Kabuto H, et al. Docosahexaenoic acid ethyl ester enhances 6-hydroxydopamine-induced neuronal damage by induction of lipid peroxidation in mouse striatum. *Neurochem Res.* 2009;34(7):1299-1303.
- [3]. 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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