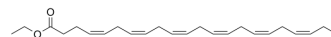


## Docosahexaenoic acid ethyl ester

|                    |   |
|--------------------|---|
| Cat. No.:          | HY-107343   |
| CAS No.:           | 81926-94-5  |
| Molecular Formula: | C <sub>24</sub> H <sub>36</sub> O <sub>2</sub>  |
| Molecular Weight:  | 356.54  |
| Target:            | Others  |
| Pathway:           | Others  |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

|                    |   |
|--------------------|---|
| <b>Description</b> | 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]</sup> . |
| <b>In Vivo</b>     | Docosahexaenoic acid ethyl ester (DHA-EE) (500 mg/kg; IP; once daily for 7 days) enhances 6-OHDA-induced reduction of striatal dopamine level <sup>[2]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only.   |

### 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.

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

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