



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

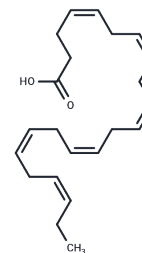
[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Docosahexaenoic Acid

## Chemical Properties

CAS No. :	6217-54-5
Formula:	C <sub>22</sub> H <sub>32</sub> O <sub>2</sub>
Molecular Weight:	328.49
Appearance:	no data available
Storage:	store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Docosahexaenoic Acid (DHA) is an essential fatty acid and an omega-3 fatty acid abundant in brain and retina.
Targets(IC50)	Others,Endogenous Metabolite
In vitro	When monocytes were differentiated to dendritic cells (DCs) in the presence of docosahexaenoic acid (DHA), the expression of costimulatory and antigen presentation markers was altered in a concentration-dependent way, positively or negatively, depending on the markers tested and the maturation stage of the DCs. DHA-treated, mature DCs showed inhibition of IL-6 expression and IL-10 and IL-12 secretion, and their lymphoproliferative stimulation capacity was impaired [1].
In vivo	An experimental model of PD was created by four intraperitoneal injections of MPTP (4 × 20 mg/kg, at 12h intervals). Docosahexaenoic acid was given daily by gavage for 4 weeks (36 mg/kg/day). The number of apoptotic dopaminergic cells significantly increased in MPTP-treated mice compared to controls. Although DHA significantly diminished the number of cell deaths in MPTP-treated mice, it did not improve the decreased motor activity observed in the experimental PD model. Docosahexaenoic acid significantly diminished the amount of cell death in the MPTP+DHA group as compared to the MPTP group [2].

## Solubility Information

Solubility	Ethanol: 30 mg/mL (91.33 mM),Sonication is recommended. DMSO: 100 mg/mL (304.42 mM),Sonication is recommended. H <sub>2</sub> O: 5 mg/mL (15.22 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

### Preparing Stock Solutions

---

	1mg	5mg	10mg
1 mM	3.0442 mL	15.2212 mL	30.4423 mL
5 mM	0.6088 mL	3.0442 mL	6.0885 mL
10 mM	0.3044 mL	1.5221 mL	3.0442 mL
50 mM	0.0609 mL	0.3044 mL	0.6088 mL

---

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

### Reference

Fang X X, Wei P, Zhao K, et al. Fatty acid-binding proteins 3, 7, and 8 bind cholesterol and facilitate its egress from lysosomes. *Journal of Cell Biology*. 2024, 223(4).

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 36 Washington Street, Wellesley Hills, MA 02481