



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### 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) 

# PRODUCT INFORMATION



## 19S(20R)-EpDPA

Item No. 28627

**Formal Name:** (4Z,7Z,10Z,13Z,16Z)-18-((2S,3R)-3-ethyloxiran-2-yl)octadeca-4,7,10,13,16-pentaenoic acid

**Synonyms:** 19S,20R-EDP, 19S,20R-EpDPE, 19S,20R-epoxy DPA, 19S,20R-epoxy Docosapentaenoic Acid

**MF:** C<sub>22</sub>H<sub>32</sub>O<sub>3</sub>

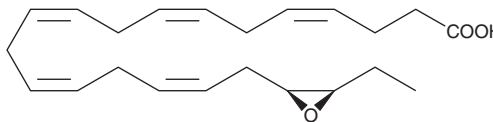
**FW:** 344.5

**Purity:** ≥98%

**Supplied as:** A 50 mM solution in ethanol

**Storage:** -20°C

**Stability:** ≥1 year



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

19S(20R)-EpDPA is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice.

### Description

19S(20R)-EpDPA is an oxylipin and a metabolite of docosahexaenoic acid (DHA; Item No. 90310).<sup>1,2</sup> It is formed from DHA by various cytochrome P450 (CYP) isoforms in a stereoselective manner.<sup>2</sup> Unlike 19R(20S)-EpDPA (Item No. 28628), 19S(20R)-EpDPA does not prevent calcium-induced increases in the spontaneous beating of isolated neonatal rat cardiomyocytes (NRCMs).<sup>3</sup>

### References

1. Cinelli, M.A., Yang, J., Scharmen, A., *et al.* Enzymatic synthesis and chemical inversion provide both enantiomers of bioactive epoxydocosapentaenoic acids. *J. Lipid Res.* **59(11)**, 2237-2252 (2018).
2. Burke, A.C., Dron, J.S., Hegele, R.A., *et al.* PCSK9: Regulation and target for drug development for dyslipidemia. *Annu. Rev. Pharmacol. Toxicol.* **57**, 223-244 (2017).
3. Burke, J.E. and Dennis, E.A. Phospholipase A<sub>2</sub> structure/function, mechanism, and signaling. *J. Lipid Res.* **50(Suppl)**, S237-S242 (2009).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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#### CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD  
ANN ARBOR, MI 48108 · USA

**PHONE:** [800] 364-9897  
[734] 971-3335

**FAX:** [734] 971-3640

CUSTSERV@CAYMANCHEM.COM  
WWW.CAYMANCHEM.COM