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- 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

www.szabo-scandic.com

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

PRODUCT INFORMATION



Heneicosapentaenoic Acid methyl ester

Item No. 11622

CAS Registry No.: 65919-53-1

Formal Name: 6Z,9Z,12Z,15Z,18Z-heneicosapentaenoic acid, methyl ester

Synonym: HPA methyl ester

MF: C₂₂H₃₄O₂

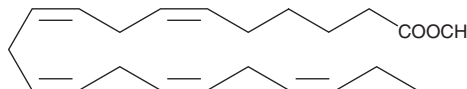
FW: 330.5

Purity: ≥98%

Supplied as: A solution in ethanol

Storage: -20°C

Stability: As supplied, 1 year from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

Heneicosapentaenoic acid (HPA) methyl ester 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. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of HPA methyl ester in these solvents is >100 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. If an organic solvent-free solution of HPA methyl ester is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of HPA methyl ester in PBS, pH 7.2, is >100 µg/ml.

For greater aqueous solubility, HPA methyl ester can be directly dissolved in 0.15 M Tris-HCl (solubility of >1 mg/ml) and then diluted with PBS (pH 8.5) to achieve the desired concentration or pH. We do not recommend storing the aqueous solution for more than one day.

Description

HPA is a fatty acid present in trace amounts in the green algae *B. pennata Lamouroux* and in fish oils. Its chemical composition is similar to eicosapentaenoic acid (EPA) except elongated with one carbon on the carboxyl end, placing the first double bond in the Δ⁶ position.¹ HPA can be used to study the significance of the position of the double bonds in n-3 fatty acids. It incorporates into phospholipids and into triacylglycerol *in vivo* with the same efficiency as EPA and docosahexaenoic acid (DHA) and exhibits strong inhibition of arachidonic acid synthesis from linoleic acid.¹ HPA is a poor substrate for prostaglandin H (PGH) synthase and for 5-lipoxygenase but retains the ability to rapidly inactivate PGH synthase.¹ In certain formulations, HPA methyl ester may serve as a prodrug, which should facilitate uptake of HPA and then be hydrolyzed by esterases to generate the free acid once incorporated into cells. It may also be useful as a reference standard in analytical work.

Reference

1. Larsen, L.N., Hovik, K., Bremer, J., *et al.* Heneicosapentaenoate (21:5n-3): Its incorporation into lipids and its effects on arachidonic acid and eicosanoid synthesis. *Lipids* **32**, 707-714 (1997).

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