



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Expressversand

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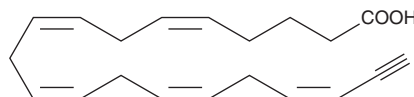
# PRODUCT INFORMATION



## Eicosapentaenoic Acid Alkyne

Item No. 16704

**Formal Name:** 5Z,8Z,11Z,14Z,17Z-eicosapentaen-19-ynoic acid  
**Synonyms:** EPA Alkyne, Click Tag™ EPA Alkyne  
**MF:** C<sub>20</sub>H<sub>26</sub>O<sub>2</sub>  
**FW:** 298.4  
**Purity:** ≥95%  
**Stability:** ≥1 year at -20°C  
**Supplied as:** A solution in ethanol



### Laboratory Procedures

For long term storage, we suggest that eicosapentaenoic acid (EPA) alkyne be stored as supplied at -20°C. It should be stable for at least one year.

EPA alkyne is supplied as a solution in ethanol. To change the solvent, simply evaporate the EPA alkyne under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of EPA alkyne 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 EPA alkyne is needed, it can be prepared by evaporating the EPA alkyne and directly dissolving the neat oil in aqueous buffers. The solubility of eicosapentaenoic acid alkyne in PBS, pH 7.2, is <100 µg/ml and >1 mg/ml in 0.15 M Tris-HCl, pH 8.5. We do not recommend storing the aqueous solution for more than one day.

### Description

Eicosapentaenoic acid (EPA; Item No. 90110) is an ω-3 fatty acid abundantly available in marine organisms that has been shown to offer anti-inflammatory and cardiovascular benefits.<sup>1,2</sup> EPA alkyne is a form of EPA with an ω-terminal alkyne. The terminal alkyne group can be used in click chemistry linking reactions to tag EPA with fluorescent or biotinylated labels for analysis of its metabolism and biological activity.<sup>3,4</sup> Because the alkyne group is at the ω-terminus, this compound can be used to easily tag metabolites and derivatives.

### References

1. Yerram, N.R., Moore, S.A., and Spector, A.A. Eicosapentaenoic acid metabolism in brain microvessel endothelium: Effect on prostaglandin formation. *J. Lipid Res.* **30**, 1747-1757 (1989).
2. Takeuchi, H., Inoue, J., Yoshida, M., *et al.* Dietary effects of n-3 eicosapentaenoic acid on essential fatty acid-deficiency symptoms of rats. *Agric. Biol. Chem.* **53**, 3225-3232 (1989).
3. Kolb, H.C. and Sharpless, K.B. The growing impact of click chemistry on drug discovery. *Drug Discov. Today* **8(24)**, 1128-1137 (2003).
4. Lutz, J.-F. and Zarafshani, Z. Efficient construction of therapeutics, bioconjugates, biomaterials and bioactive surfaces using azide-alkyne “click” chemistry. *Adv. Drug Deliv. Rev.* **60**, 958-970 (2008).

#### 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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