



# SZABO SCANDIC

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## Produktinformation



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- Expressversand

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# PRODUCT INFORMATION



## Hepoxilin A<sub>3</sub> methyl ester Item No. 22151

**Formal Name:** methyl (5Z,9E)-8-hydroxy-10-((2S,3S)-3-((Z)-oct-2-en-1-yl)oxiran-2-yl)deca-5,9-dienoate

**Synonym:** HxA<sub>3</sub> methyl ester

**MF:** C<sub>21</sub>H<sub>34</sub>O<sub>4</sub>

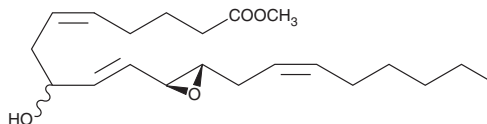
**FW:** 350.5

**Purity:** ≥98% (mixture of isomers)

**Supplied as:** A solution in hexane/1% TEA

**Storage:** -80°C

**Stability:** ≥1 year



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

### Laboratory Procedures

Hepoxilin A<sub>3</sub> (HxA<sub>3</sub>) methyl ester is supplied as a solution in hexane/1% TEA. To change the solvent, simply evaporate the hexane/1% TEA under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol and dimethyl formamide purged with an inert gas can be used. The solubility of HxA<sub>3</sub> methyl ester in these solvents is approximately 50 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 HxA<sub>3</sub> methyl ester is needed, it can be prepared by evaporating the hexane/1% TEA and directly dissolving the neat oil in aqueous buffers. The solubility of HxA<sub>3</sub> methyl ester in PBS, pH 7.2, is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

HxA<sub>3</sub> methyl ester is an ester version of HxA<sub>3</sub> that more potently induces calcium release from intracellular stores and then induces calcium influx in suspended human neutrophils.<sup>1</sup> HxA<sub>3</sub> is produced from the intermediate 12-HpETE (Item Nos. 10138 | 44570) in the metabolic pathway for arachidonic acid (Item No. 90010).<sup>2</sup>

### References

1. Reynaud, D., Demin, P.M., Sutherland, M., *et al.* Hepoxilin signaling in intact human neutrophils: Biphasic elevation of intracellular calcium by unesterified hepoxilin A<sub>3</sub>. *FEBS Lett.* **446(2-3)**, 236-238 (1999).
2. Nigam, S. and Zafiriou, M.-P. Hepoxilin A<sub>3</sub> synthase. *Biochem. Biophys. Res. Commun.* **338(1)**, 161-168 (2005).

#### 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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