



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Expressversand

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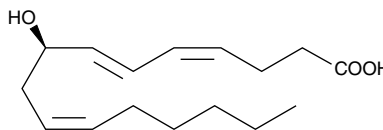
# Product Information



## tetranor-12(R)-HETE

Item No. 34565

**CAS Registry No.:** 135271-51-1  
**Formal Name:** 8R-hydroxy-4Z,6E,10Z-hexadecatrienoic acid  
**Synonym:** 8(R)-HHxTrE  
**MF:** C<sub>16</sub>H<sub>26</sub>O<sub>3</sub>  
**FW:** 266.4  
**Purity:** ≥98%  
**Stability:** ≥1 year at -80°C  
**Supplied as:** A solution in ethanol  
**UV/Vis.:** λ<sub>max</sub>: 234 nm ε: 27,000



### Laboratory Procedures

For long term storage, we suggest that tetranor-12(R)-HETE be stored as supplied at -80°C. It should be stable for at least one year.

Tetranor-12(R)-HETE 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. Tetranor-12(R)-HETE is miscible in these solvents.

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 tetranor-12(R)-HETE is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of tetranor-12(R)-HETE in PBS (pH 7.2) is approximately 0.8 mg/ml. For greater aqueous solubility, tetranor-12(R)-HETE can be directly dissolved in 0.1 M Na<sub>2</sub>CO<sub>3</sub> (2 mg/ml) and then diluted with PBS (pH 7.2) to achieve the desired concentration or pH. Store aqueous solutions of tetranor-12(R)-HETE on ice and use within 12 hours of preparation. Although the aqueous solutions of tetranor-12(R)-HETE may be stable for more than 12 hours, we strongly recommend using a fresh preparation each day.

Metabolism of 12(R)-HETE in corneal tissue produces predominantly the compound resulting from the loss of four carbon atoms through β-oxidation from C-1. This metabolite is 8(R)-hydroxy hexadecatrienoic acid (8(R)-HHxTrE) or 2,3,4,5-tetranor 12(R)-HETE.

### Reference

1. Nishimura, M., Schwartzman, M.L., Falck, J.R., *et al.* Metabolism of 12(R)-hydroxy-5,8,10,14-eicosatetraenoic acid (tetranor 12(R)-HETE) in corneal tissues: Formation of novel metabolites. *Arch. Biochem. Biophys.* **290**, 326-335 (1991).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/34565](http://www.caymanchem.com/catalog/34565)

**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

#### MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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