



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



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Laborgeräte & Service

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- Expressversand

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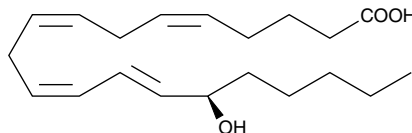
# Product Information



## 15(R)-HETE

Item No. 34710

**CAS Registry No.:** 83603-31-0  
**Formal Name:** 15R-hydroxy-5Z,8Z,11Z,13E-eicosatetraenoic acid  
**MF:** C<sub>20</sub>H<sub>32</sub>O<sub>3</sub>  
**FW:** 320.5  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A solution in ethanol  
**Misc:** Oxygen and light sensitive



### Laboratory Procedures

For long term storage, we suggest that 15(R)-HETE be stored as supplied at -20°C. It should be stable for at least two years.

15(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. The solubility of 15(R)-HETE 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 15(R)-HETE is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 15(R)-HETE in PBS (pH 7.2) is approximately 1 mg/ml. Store aqueous solutions of 15(R)-HETE on ice and use within 12 hours of preparation.

15(R)-HETE is one of the enantiomeric constituents of (±)15-HETE, a monohydroxylated product resulting from the nonenzymatic oxidation of arachidonic acid. It is comprised of an equal mixture of 15(R)- and 15(S)-HETE. These enantiomers can be isolated using various purification methods. Aspirin-inactivated human recombinant and ovine COX-2 metabolizes arachidonic acid to 15(R)-HETE.<sup>1,2</sup>

### References

1. Lecomte, M., Laneuville, O., Ji, C., *et al.* Acetylation of human prostaglandin endoperoxide synthase-2 (cyclooxygenase-2) by aspirin. *J. Biol. Chem.* **269**, 13207-13215 (1994).
2. Capdevila, J.H., Morrow, J.D., Belosludtsev, Y.Y., *et al.* The catalytic outcomes of the constitutive and the mitogen inducible isoforms of prostaglandin H<sub>2</sub> synthase are markedly affected by glutathione and glutathione peroxidase(s). *Biochemistry* **34**, 3325-3337 (1995).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/34710](http://www.caymanchem.com/catalog/34710)

**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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