

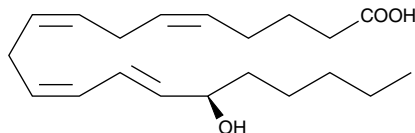
Product Information



15(R)-HETE

Item No. 34710

CAS Registry No.: 83603-31-0
Formal Name: 15R-hydroxy-5Z,8Z,11Z,13E-eicosatetraenoic acid
MF: C₂₀H₃₂O₃
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.^{1,2}

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 H₂ 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

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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Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will meet our specifications at the time of delivery.

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