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Diagnostik & molekulare Diagnostik



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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

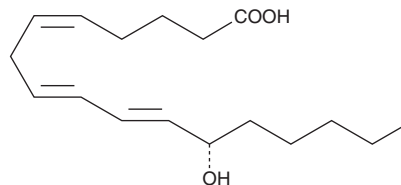
PRODUCT INFORMATION



12(S)-HHTrE

Item No. 34590

CAS Registry No.: 54397-84-1
Formal Name: 12S-hydroxy-5Z,8E,10E-heptadecatrienoic acid
Synonym: 12(S)-HHT
MF: C₁₇H₂₈O₃
FW: 280.4
Purity: ≥95%
UV/Vis.: λ_{max}: 232 nm ε: 33,400
Supplied as: A solution in ethanol
Storage: -20°C
Stability: ≥1 year



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

Laboratory Procedures

12(S)-HHTrE 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 or dimethyl formamide purged with an inert gas can be used. 12(S)-HHTrE 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 12(S)-HHTrE is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 12(S)-HHTrE in PBS (pH 7.2) is approximately 0.8 mg/ml. For greater aqueous solubility, 12(S)-HHTrE can be directly dissolved in 0.1 M Na₂CO₃ (2 mg/ml) and then diluted with PBS (pH 7.2) to achieve the desired concentration or pH. We do not recommend storing the aqueous solution for more than one day.

Description

12(S)-HHTrE is a product of the cyclooxygenase (COX) pathway and one of the primary arachidonic acid metabolites of human platelets.¹ It is biosynthesized by thromboxane (TXA₂) synthase from prostaglandin H₂ (PGH₂) concurrently with TXA₂. 12(S)-HHTrE is a natural lipid agonist of the leukotriene B₂ receptor BLT₂ *in vivo* that induces chemotaxis of mast cells and accelerates wound closure.^{2,3} 12(S)-HHTrE is avidly oxidized to 12-oxoHHTrE by porcine 15-hydroxy PGDH.⁴

References

1. Diczfalusy, U., Falardeau, P., Hammarström, S. Conversion of prostaglandin endoperoxides to C₁₇-hydroxy acids catalyzed by human platelet thromboxane synthase. *FEBS Lett.* **84**, 271-274 (1977).
2. Okuno, T., Iizuka, Y., Okazaki, H., *et al.* 12(S)-hydroxyheptadeca-5Z, 8E, 10E-trienoic acid is a natural ligand for leukotriene B₄ receptor 2. *J. Exp. Med.* **1-8** (2008).
3. Liu, M., Saeki, K., Matsunobu, T., *et al.* 12-hydroxyheptadecatrienoic acid promotes epidermal wound healing by accelerating keratinocyte migration via the BLT₂ receptor. *J. Exp. Med.* **211(6)**, 1063-1078 (2014).
4. Liu, Y., Yoden, K., Shen, R., *et al.* 12-L-Hydroxy-5,8,10-heptadecatrienoic acid (HHT) is an excellent substrate for NAD⁺-dependent 15-hydroxyprostaglandin dehydrogenase. *Biochem. Biophys. Res. Commun.* **129**, 268-274 (1985).

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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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM

WWW.CAYMANCHEM.COM