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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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-OxoETE

Item No. 34580

CAS Registry No.: 108437-64-5
Formal Name: 12-oxo-5Z,8Z,10E,14Z-
eicosatetraenoic acid

Synonym: 12-KETE

MF: C₂₀H₃₀O₃

FW: 318.5

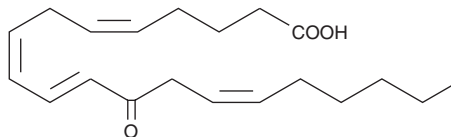
Purity: ≥90%

UV/Vis.: λ_{max}: 280 nm ε: 30,000

Supplied as: A solution in ethanol

Storage: -80°C

Stability: As supplied, 6 months from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

12-OxoETE 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. 12-OxoETE 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-oxoETE is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 12-oxoETE in PBS, pH 7.2, is approximately 0.8 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

12-OxoETE is synthesized by human platelets and *Aplysia* nervous tissue after incubation with arachidonic acid.^{1,2} Microsomal fractions of various tissues will reduce 12-oxoETE to 12(S)-HETE or a mixture of 12(S)- and 12(R)-HETE.^{1,3} 12-OxoETE induces a rapid, dose dependent increase of cytoplasmic free calcium via a leukotriene B₄ receptor or a common activation sequence.⁴

References

1. Falgoutret, J-P., Leblanc, Y., and Riendeau, D. Stereoselective carbonyl reductases from rat skin and leukocyte microsomes converting 12-keto eicosatetraenoic acid to 12(S)-HETE. *FEBS Lett.* **262**, 197-200 (1990).
2. Fruteau De Lacos, B., Maclouf, J., Poubelle, P., et al. Conversion of arachidonic acid into 12-oxo derivatives in human platelets. A pathway possibly involving the heme-catalysed transformation of 12-hydroperoxy-eicosatetraenoic acid. *Prostaglandins* **33**, 315-337 (1987).
3. Falgoutret, J-P., Leblanc, Y., Rokach, J., et al. NAD(P)H-dependent reduction of 12-ketoeicosatetraenoic acid to 12(R)-hydroxyeicosatetraenoic acid by rat liver microsomes. *Biochem. Biophys. Res. Commun.* **156**, 1083-1089 (1988).
4. Naccache, P.H., Leblanc, Y., Rokach, J., et al. Calcium mobilization and right-angle light scatter responses to 12-oxo-derivatives of arachidonic acid in neutrophils: Evidence for the involvement of the leukotriene B₄ receptor. *Biochem. Biophys. Acta.* **1133**, 102-106 (1991).

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