

Product Data Sheet

Product Name: 20-carboxy Leukotriene B₄

Cat. No.: GC42082

Chemical Properties

Cas. No. 80434-82-8

SMILES O[C@H](C/C=C\CCCC(O)=O)/C=C/C=C/C=C\C[C@@H](O)CCCC(O)=O

Formula C₂₀H₃₀O₆

M.Wt 366.5

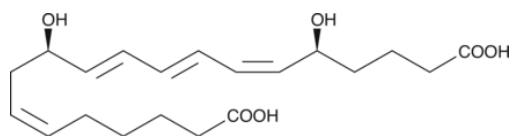
Solubility DMF: >50 mg/ml (per Rao Maddipati), DMSO: >50 mg/ml (per Rao Maddipati), Ethanol: >50 mg/ml (per Rao Maddipati), PBS pH 7.2: >1 mg/ml (from 13(S)-HODE)

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

20-carboxy LTB₄ is a metabolite of LTB₄ in human neutrophils. In human leukocytes, LTB₄ is inactivated by the enzyme LTB₄ 20-hydroxylase. The resulting 20-hydroxy LTB₄ is further oxidized to 20-carboxy LTB₄. LTB₄ metabolism in isolated rat hepatocytes also results in production of 20-carboxy LTB₄ along with other ω-oxidation products. The biological activity of 20-carboxy LTB₄ is only about 2.6% compared to that of LTB₄ in causing PMNL degranulation.

Caution: Product has not been fully validated for medical applications. For research use only.

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