

Product Data Sheet

Product Name: Lipoxin B4

Cat. No.: GC18681

Chemical Properties

Cas. No. 98049-69-5

Chemical Name 5S,14R,15S-trihydroxy-6E,8Z,10E,12E-eicosatetraenoic acid

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

Formula $C_{20}H_{32}O_5$ M.Wt 352.5

Solubility DMF: >50 mg/ml, Ethanol: >50 mg/ml, PBS pH 7.2: >1 mg/ml (from 13(S)-HODE) Storage Store at -80°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.

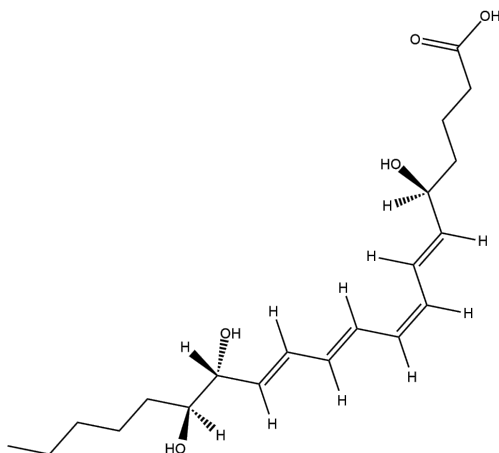
Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Structure



Background

Lipoxin B4 (LXB4) is a positional isomer of LXA4 produced by the metabolism of 15-HETE or 15(S)-HpETE by human leukocytes. At a concentration of 100 nM, LXB4 inhibits polymorphonuclear leukocyte (PMN) migration stimulated by leukotriene B4 and inhibits LTB4-induced adhesion of PMNs with an IC50 value of 0.3 nM.

References:

- [1]. Serhan, C.N., Hamberg, M., Samuelsson, B., et al. On the stereochemistry and biosynthesis of lipoxin B Proc. Nat. Acad. Sci. USA 83(7), 1983-1987 (1986).
- [2]. Serhan, C.N., Hamberg, M., and Samuelsson, B. Lipoxins: Novel series of biologically active compounds formed from arachidonic acid in human leukocytes Proc. Natl. Acad. Sci. U.S.A. 81(17), 5335-5339 (1984).
- [3]. Papayianni, A., Serhan, C.N., and Brady, H.R. Lipoxin A4 and B4 inhibit leukotriene-stimulated interactions of human neutrophils and endothelial cells Journal of Immunology 156, 2264-2272 (1996).

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