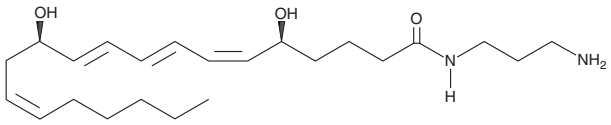
PRODUCT INFORMATION

Leukotriene B_4-3-aminopropylamide

Item No. 20114

CAS Registry No.: 89596-43-0
Formal Name: N-(3-aminopropyl)-5S,12R-dihydroxy-6Z,8E,10E,14Z-eicosatetraenamide
Synonym: LTB_4-3-aminopropylamide
MF: $C_{23}H_{40}N_2O_3$
FW: 392.6
Purity: ≥95%
UV/Vis.: λ_{max}: 270 nm
Supplied as: A solution in ethanol
Storage: -20°C
Stability: ≥1 year
Special Conditions: Light Sensitive



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

Laboratory Procedures

Leukotriene B_4-3-aminopropylamide (LTB_4-3-aminopropylamide) 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. LTB_4-3-aminopropylamide 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 LTB_4-3-aminopropylamide is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of LTB_4-3-aminopropylamide in PBS, pH 7.2, is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

The effects of LTB_4 are mediated by two receptors, BLT_1 and BLT_2.[1,2] LTB_4-3-aminopropylamide is an analog of LTB_4 that exhibits potent and selective binding to the BLT_1 receptor, having K_i values of 5.1 and 1,227 nM at BLT_1 and BLT_2, respectively.[3]

References

1. Yokomizo, T., Izumi, T., Chang, K., *et al.* A G-protein-coupled receptor for leukotriene B_4 that mediates chemotaxis. *Nature* **387**, 620-624 (1997).
2. Yokomizo, T., Kato, K., Terawaki, K., *et al.* A second leukotriene B_4 receptor, BLT_2: A new therapeutic target in inflammation and immunological disorders. *J. Exp. Med.* **193**, 421-431 (2000).
3. Wang, S., Gustafson, E., Pang, L., *et al.* A novel hepatointestinal leukotriene B_4 receptor. *J. Biol. Chem.* **275**, 40686-40694 (2000).

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