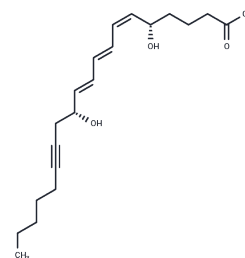


14,15-dehydro Leukotriene B4

Chemical Properties

CAS No. :	114616-11-4
Formula:	C ₂₀ H ₃₀ O ₄
Molecular Weight:	334.45
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Leukotriene B4 (LTB ₄) is a dihydroxy fatty acid derived from arachidonic acid through the 5-lipoxygenase pathway. It promotes a number of leukocyte functions including aggregation, stimulation of ion fluxes, enhancement of lysosomal enzyme release, superoxide anion production, chemotaxis, and chemokinesis. At least two LTB ₄ receptors, termed BLT1 and BLT2, have been identified. 14,15-dehydro LTB ₄ is a LTB ₄ receptor antagonist that has a higher binding affinity for BLT1, demonstrating a K _i value of 27 nM, compared to BLT2, which has a K _i value of 473 nM. 14,15-dehydro LTB ₄ inhibits LTB ₄ -induced release of lysozymes from rat polymorphonuclear leukocytes with an IC ₅₀ value of 1 μM.
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Solubility Information

Solubility	PBS (pH 7.2): >1 mg/mL DMF: Miscible DMSO: Miscible Ethanol: Miscible (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.990 mL	14.9499 mL	29.8998 mL
5 mM	0.598 mL	2.990 mL	5.980 mL
10 mM	0.299 mL	1.495 mL	2.990 mL
50 mM	0.0598 mL	0.299 mL	0.598 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

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