

Leukotriene D4

Chemical Properties

CAS No. : 73836-78-9

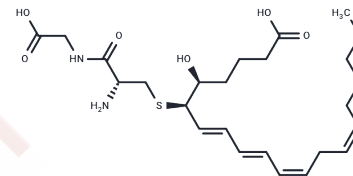
Formula: C₂₅H₄₀N₂O₆S

Molecular Weight: 496.66

Store at low temperature, Keep away from direct sunlight, High Volatility

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|---------------|---|
| Description | Leukotriene D4 (LTD4) is a potent pro-inflammatory mediator formed from arachidonic acid, a bronchoconstrictor, and induces osteoclast senescence. Leukotriene D4 induces transcriptional activity of potentially oncogenic genes and can be used in the study of asthma. |
| Targets(IC50) | Endogenous Metabolite, Drug Metabolite |
| In vitro | Leukotriene D4 (1.5, 3, 6, 12, 24 µg/paw; Intradermal Injection; Balb/c male mice) caused significant edematous response and dye extravasation at doses of 1.5-6 µg/paw and increased capillary permeability in a dose-related manner in mice.[2] |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.0134 mL | 10.0672 mL | 20.1345 mL |
| 5 mM | 0.4027 mL | 2.0134 mL | 4.0269 mL |
| 10 mM | 0.2013 mL | 1.0067 mL | 2.0134 mL |
| 50 mM | 0.0403 mL | 0.2013 mL | 0.4027 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Smith LJ, et al. The effect of inhaled leukotriene D4 in humans. *Am Rev Respir Dis.* 1985 Mar;131(3):368-72.
 Griswold DE, et al. Phlogistic activity of leukotriene D4 in the mouse. *Inflammation.* 1986 Mar;10(1):1-7.

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