

## Ricinelaiddic Acid

## Chemical Properties

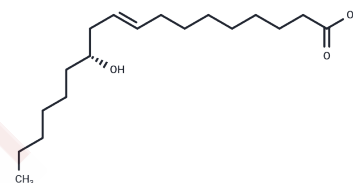
CAS No. : 540-12-5

Formula: C<sub>18</sub>H<sub>34</sub>O<sub>3</sub>

Molecular Weight: 298.46

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

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Ricinelaiddic acid is a 12-hydroxy fatty acid and an antagonist of leukotriene B <sub>4</sub> (LTB <sub>4</sub> ) receptors (K <sub>i</sub> = 2 μM in porcine neutrophil membranes). It inhibits chemotaxis and calcium flux induced by LTB <sub>4</sub> in isolated human neutrophils (IC <sub>50</sub> s = 10 and 7 μM, respectively). Ricinelaiddic acid (1 mg/kg, i.v.) inhibits bronchoconstriction induced by LTB <sub>4</sub> in rats by 46%.
Targets(IC <sub>50</sub> )	Others, Calcium Channel, Endogenous Metabolite, Leukotriene Receptor

## Solubility Information

Solubility	Ethanol: Miscible DMF: 3 mg/mL (10.05 mM), Sonication is recommended. DMSO: 2 mg/mL (6.7 mM), Sonication is recommended. PBS (pH 7.2): 2 mg/mL (6.7 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3505 mL	16.7527 mL	33.5053 mL
5 mM	0.6701 mL	3.3505 mL	6.7011 mL
10 mM	0.3351 mL	1.6753 mL	3.3505 mL
50 mM	0.067 mL	0.3351 mL	0.6701 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.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481