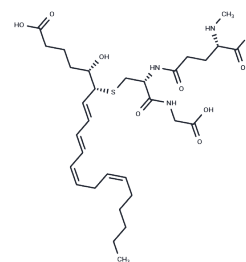


## N-methyl Leukotriene C4 (250 µg/ml solution in ethanol)

## Chemical Properties

CAS No. :	131391-65-6
Formula:	C31H49N3O9S
Molecular Weight:	639.80
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	N-methyl Leukotriene C4 (250 µg/ml solution in ethanol) is a metabolically stable synthetic analogue of Leukotriene C4 that resists enzymatic conversion into LTD4 and LTE4. N-methyl Leukotriene C4 is a valuable experimental tool for investigations involving leukotriene signaling, inflammatory mediator biology, eicosanoid metabolism, and receptor-associated inflammatory pathways.
Targets(IC50)	Leukotriene Receptor
In vitro	N-methyl Leukotriene C4 (NMLTC4) behaves as a full agonist at human CysLT2 receptor with EC50 value >2000 nM by β-galactosidase-β-arrestin assay[1].
In vivo	N-methyl Leukotriene C4 (NMLTC4) (10µL; intradermal injection) elicited a large, statistically significant increase in Evans Blue dye leakage in the TG-EC mice. [1]

## Solubility Information

Solubility	DMF: 25 mg/mL (39.07 mM),Sonication is recommended. DMSO: 25 mg/mL (39.07 mM),Sonication is recommended. PBS (pH 7.2): < 1 mg/mL (insoluble),Sonication is recommended. Ethanol:H2O (95:5): 1 mg/mL (1.56 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.563 mL	7.8149 mL	15.6299 mL
5 mM	0.3126 mL	1.563 mL	3.126 mL
10 mM	0.1563 mL	0.7815 mL	1.563 mL
50 mM	0.0313 mL	0.1563 mL	0.3126 mL

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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

Yan D, et al. Differential signaling of cysteinyl leukotrienes and a novel cysteinyl leukotriene receptor 2 (CysLT<sub>2</sub>) agonist, N-methyl-leukotriene C<sub>4</sub>, in calcium reporter and  $\beta$  arrestin assays. Mol Pharmacol. 2011 Feb;79(2):270-8.

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