



## Product Information

**Product ID** M5756

**CAS No.** 151767-02-1

**Chemical Name** 1-((((1R)-1-(3-((1E)-2-(7-chloro-2-quinolinyl)ethenyl)phenyl)-3-(2-(1-hydroxy-1-methylethyl)phenyl)propyl)thio)methyl)-Cyclopropaneacetic acid,

**Synonym** Singulair

**Formula** C<sub>35</sub>H<sub>35</sub>ClNO<sub>3</sub>S Na

**Formula Wt.** 608.17

**Melting Point**

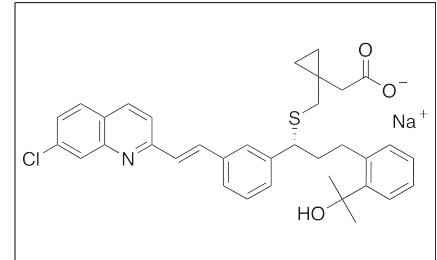
**Purity** ≥98%

**Solubility** Soluble in ethanol, DMSO.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Montelukast is an antagonist at cysteinyl leukotriene 1 (CysLT1) receptors; it exhibits anti-allergic, anti-asthma, anti-inflammatory, analgesic, anti-tussive, and bronchodilatory activities. Montelukast is clinically used to treat allergic rhinitis and asthma, although it also attenuates cough and decreases eosinophil infiltration. Montelukast decreases expression of p38 MAPK, NF-κB, IL-1B, IL-6, and TNF-α and inhibits activation of microglia, attenuating neuropathic pain in animal models of chronic constrictive injury (CCI).



**Bulk quantities available upon request**

Product ID	Size
M5756	10 mg
M5756	25 mg
M5756	100 mg

**References** Zhou C, Shi X, Huang H, et al. Montelukast Attenuates Neuropathic Pain Through Inhibiting p38 Mitogen-Activated Protein Kinase and Nuclear Factor-Kappa B in a Rat Model of Chronic Constriction Injury. *Anesth Analg.* 2014 May;118(5):1090-6. PMID: 24686047.

Niimi A. Cough, asthma, and cysteinyl-leukotrienes. *Pulm Pharmacol Ther.* 2013 Oct;26(5):514-9. PMID: 23774534.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.