



Montelukast (sodium)

Catalog No: tcsc0548

<u></u>	Available Sizes
Size	s 50mg
Size	100mg
Size	s 500mg
	Specifications
CAS 1517	No: 67-02-1
Forn C ₃₅ H	nula: ₃₅ CINNaO ₃ S
	way: k/G Protein;Autophagy
Targ Leuk	et: otriene Receptor;Autophagy
Purit >98%	gy / Grade:
	bility: : ≥ 70 mg/mL (115.10 mM)
Alte i MK04	rnative Names:

Product Description

608.17

Observed Molecular Weight:



Montelukast (sodium) is a potent, selective $\mathbf{CysLT_1}$ receptor antagonist.

In Vitro: Montelukast may contribute to the reduction of eosinophilic inflammation in upper-airway inflammatory diseases such as rhinitis and nasal polyposis. Montelukast has a significant inhibitory effect on FBS-induced GM-CSF, IL-6, and IL-8 secretion, but not sICAM-1, in nasal mucosa and polyp epithelial cells. Montelukast also shows an inhibitory effect (p[1].

In Vivo: Montelukast significantly reduces mild, moderate, and part of severe exacerbations in chronic mild to moderate asthma, but it has inferior efficacy to ICS or ICS plus LABA^[2]. Rats with induced asthma have up-regulated NK1R expression in the airway, and montelukast can down regulate NK1R expression during airway remodeling^[3]. Blockade of CysLT₁R by repeated treatment with montelukast (1 or 2 mg/kg, ig, 4 weeks) reduces $A\beta_{1-42}$ -induced CysLT₁R expression and also suppresses $A\beta_{1-42}$ -induced increments of NF- κ B p65, TNF- α , IL-1 β and caspase-3 activation, and Bcl-2 downregulation in the hippocampus and cortex. Correspondingly, montelukast treatment significantly improves $A\beta_{1-42}$ -induced memory impairment in mice, but has little effect on normal mice^[4].

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