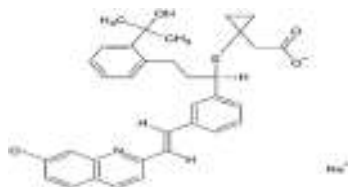


Montelukast sodium

ALTERNATE NAME: MK-476
1-[[[(1R)-1-[3-[(1E)-2-(7-Chloro-2-quinolinyl)ethenyl]phenyl]-3-[2-(1-hydroxy-1-methylethyl)phenyl]propyl]thio]methyl]cyclopropaneacetic acid sodium salt

CATALOG #: B2779-50 50 mg
B2779-250 250 mg

STRUCTURE:



MOLECULAR FORMULA: C₃₅H₃₅ClNO₃S • Na

MOLECULAR WEIGHT: 608.2

CAS NUMBER: 151767-02-1

APPEARANCE: White solid

PURITY: ≥98%

SOLUBILITY: ~10 mg/ml Water
~30 mg/ml DMSO

DESCRIPTION: Montelukast is a brain-penetrant cysteinyl leukotriene 1 (CysLT1) receptor antagonist (IC₅₀ = 4.9 nM in HEK293 cell membranes expressing the human receptor). It is selective for CysLT1 over CysLT2 receptors (IC₅₀ = >10,000 nM in COS-7 cell membranes expressing the human receptor). Reduces neuroinflammation, improves blood brain barrier (BBB) integrity, enhances learning and memory, and restores hippocampal neurogenesis and cognitive function in aged rats.

STORAGE TEMPERATURE: -20°C. Protect from moisture

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Ketoconazole (B2735)
ONO 1078 (B1099)

DISCLAIMER: *FOR RESEARCH USE ONLY! Not to be used on humans.*