



## CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA  
Tel: (416) 665-9696, Fax: (416) 665-4439  
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

### 1. Identification

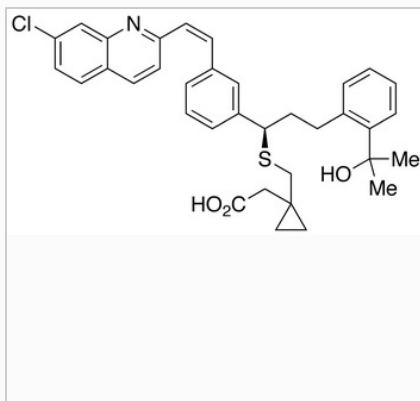
**Catalogue Number:** M568005

**CAS Number:** 774538-96-4

**Product:** cis-Montelukast

**Synonym:** 1-[[[(1R)-1-[3-[(1Z)-2-(7-Chloro-2-quinolinyl)ethenyl]phenyl]-3-[2-(1-hydroxy-1-methylethyl)phenyl]propyl]thio]methyl]cyclopropaneacetic Acid; Montelukast Impurity G; Montelukast EP Impurity G; Montelukast USP Related Compound G; Montelukast cis Isomer

**Structure:**



**Molecular Formula:**

C<sub>35</sub>H<sub>36</sub>ClNO<sub>3</sub>S

**Molecular weight:**

586.18

**Source of Product:**

Synthetic

**Solubility:**

Chloroform (Slightly),  
Dichloromethane (Slightly),  
Methanol (Slightly, Sonicated)

**Lot Number:** 9-URV-134-1

**Purity:** 95%

**Shipping Condition:** This Product Is Stable To Be Shipped At Room Temperature

**Storage Condition:** -20°C

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Pale Yellow to Light Yellow Solid	Pale Yellow to Light Yellow Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 69.36, %H: 6.22, %N: 2.30
MS	Conforms to Structure	Conforms
HPLC Purity	Report Result	96.27% (210 nm)
Specific Rotation	Report Result	+68.0° (c = 0.2, Methanol)

**Additional Information:**

Contains: ~3.6% Acetic Acid

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

### 4. Signatures

**Reviewed By**  
Swathi Reddy

**Reviewed By**  
Toni Rantanen

**C of A Approved By** Test Date  
Chanell Chu 3/29/2022

**Retest Date**  
3/27/2026