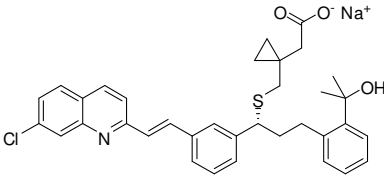




## Certificate of Analysis

<b>Axon Catalogue ID:</b>	3236	<b>Batch Number:</b>	1	
<b>Product Name:</b>	Montelukast sodium			
<b>Alternative Name(s):</b>	MK-0476			
<b>IUPAC Name:</b>	Sodium (R,E)-2-((1-((1-(3-(2-(7-chloroquinolin-2-yl)vinyl)phenyl)-3-(2-(2-hydroxypropan-2-yl)phenyl)propylthio)methyl)cyclopropyl)acetate			
<b>Structure:</b>			<b>Amount:</b>	
<b>CAS number(s):</b>	158966-92-8 (parent), 151767-02-1 (sodium (1:1))			
<b>Molecular Formula:</b>	C35H35ClNNaO3S	<b>Molecular Weight:</b>	608.17	
<b>Batch Molecular Formula:</b>	C35H35ClNNaO3S.0.75H2O	<b>Batch Molecular Weight:</b>	621.68	
<b>Appearance:</b>	White solid	<b>Observed mp:</b>	114.5 - 116.2 °C	
<b>TLC (R<sub>f</sub>):</b>	0.3	DCM/MeOH (20:1)		
<b>Chemical Purity:</b>	99.7%			
<b>Optical Purity (ee):</b>	Optically pure			
<b>Optical Rotation (Det.):</b>	[α] <sub>D</sub> = +130.7° with c = 0.5 in MeOH			
<b><sup>1</sup>H-NMR:</b>	Analytical data confirm chemical structure			
<b>Mass Spec:</b>	Analytical data confirm chemical structure			
<b>Microanalysis:</b>	Calculated: C 67.62, H 5.92, N 2.25; Found: C 67.56, H 5.91, N 2.25			
<b>Storage Conditions:</b>	Desiccate at -20 °C			
<b>Solubility Data:</b>	<b>Solvent</b>	<b>Solubility (mg/ml)</b>	<b>Solubility (mM)</b>	<b>Remarks</b>
	Water	32.0	51.5	* Sonication
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	21.0	33.8	
	EtOH			Not Tested
<b>Remarks:</b>	* Sonication enhanced solubility.			
<b>QC Date:</b>	4-11-2020			

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to [info@axonmedchem.com](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**