

Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB8528	
Compound name	Imiquimod hydrochloride	
Chemical name	4-Amino-1-isobutyl-1H-imidazo(4,5-c)quinoline hydrochloride	
Batch number	E2192-1-1	
Batch molecular formula	C ₁₄ H ₁₆ N ₄ ·2HCl·0.5H ₂ O	
Batch molecular weight	322.24	
Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 100%
NMR	¹ H NMR in DMSO at 400 MHz consistent with structure	Meets specification
Mass spectrum	Electrospray positive analysis consistent with structure	Meets specification
Microanalysis	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in water (5 mg/ml with warming), in ethanol (5 mg/ml with warming), and in DMSO (2 mg/ml)	Meets specification

Produced by Richard Patterson

Signature

Passed by Steve Roome

Signature

Date

13/03/2023

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.