

Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB5934	 The chemical structure shows a central benzimidazole ring system. One nitrogen is part of a fused benzimidazole ring with a carbonyl group. The other nitrogen is part of a benzimidazole ring with a phenyl group at the 2-position. The 4-position of this benzimidazole ring is substituted with a 4-(aminocyclobutyl)phenyl group. The 5-position is substituted with a phenyl group. Two HCl molecules are shown below the structure, indicating it is a dihydrochloride salt.
Compound name	MK-2206 dihydrochloride	
Chemical name	8-[4-(1-aminocyclobutyl)phenyl]-9-phenyl-2H-[1,2,4]triazolo[3,4-f][1,6]naphthyridin-3-one dihydrochloride	
Batch number	E2045-1-1	
Batch molecular formula	$C_{25}H_{21}N_5O \cdot 2HCl \cdot 0.9H_2O$	
Batch molecular weight	496.61	

Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 99.3%
NMR	1H 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	Yellow solid	Meets specification: Yellow solid
Solubility	Soluble in DMSO (100 mM)	Meets specification

Produced by Richard Patterson

Signature

Passed by Steve Roome

Signature

Date

12/08/2022

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