

Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB1080	
Compound name	E-4031 dihydrochloride	
Chemical name	N-[4-[[1-[2-(6-Methyl-2-pyridinyl)ethyl]-4-piperidyl]carbonyl]phenyl]methanesulfonamide dihydrochloride	
Batch number	E0830-7-1	
Batch molecular formula	C ₂₁ H ₂₇ N ₃ O ₃ S·2HCl·H ₂ O	
Batch molecular weight	492.46	

Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 99.1%
NMR	1H NMR in D ₂ O 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
TLC	TLC analysis in 5% MeOH/DCM (1% NH ₃) shows one spot under uv	Meets specification: R _f =0.3
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in water (100 mM) and in DMSO (50 mM)	Meets specification

Produced by

Signature

Passed by

Signature

Date

14-09-18

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