

Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB2686	
Compound name	Dexmedetomidine Hydrochloride	
Chemical name	4-[(1S)-1-(2,3-Dimethylphenyl)ethyl]-1H-imidazole hydrochloride	
Batch number	E2095-1-1	
Batch molecular formula	$C_{13}H_{16}N_2 \cdot HCl \cdot 0.1H_2O$	
Batch molecular weight	238.55	
Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >99% purity	Meets specification: 99.9%
NMR	1H NMR in D_2O 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 (100 mM) and in DMSO (100 mM)	Meets specification

Produced by Richard Patterson

Signature

Passed by Steve Roome

Signature

Date

28/09/2022

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