

Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB0820	
Compound name	Propidium iodide	
Chemical name	3,8-Diamino-5-[3-(diethylmethylammonio)propyl]-6-phenylphenanthridinium diiodide	
Batch number	E0852-1-1	
Batch molecular formula	$C_{27}H_{34}N_4I_2 \cdot 1.25H_2O$	
Batch molecular weight	690.92	
Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >95% purity	Meets specification: 97.3%
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	Red to purple solid	Meets specification: Red solid
Solubility	Soluble in water (5 mM, warming)	Meets specification

Produced by

Signature

Passed by

Signature

Date

05-09-18

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