

Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB0531	
Compound name	PPDA	
Chemical name	(2S,3R)-1-(Phenanthren-2-carbonyl)piperazine-2,3-dicarboxylic acid	
Batch number	E1418-1-4	
Batch molecular formula	C ₂₁ H ₁₈ N ₂ O ₅ ·2.6H ₂ O	
Batch molecular weight	425.22	
Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 98.3%
NMR	¹ H NMR in D ₂ O/NaOD at 400 MHz consistent with structure	Meets specification
Mass spectrum	Electrospray negative analysis consistent with structure	Meets specification
Microanalysis	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
TLC	TLC analysis in 40% PAW/BuOH shows one spot under ninhydrin	Meets specification: R _f =0.3
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in water with 2 eq. NaOH (50 mM) and in DMSO (100 mM)	Meets specification

Produced by

Signature

Passed by

Signature

Date

01-12-20

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