

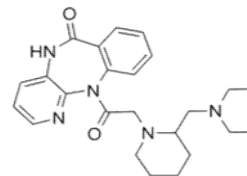
Certificate of Analysis



Product Identification

Catalog number	HB1501
Compound name	AF-DX 116
Chemical name	11-[[2-[(Diethylamino)methyl]-1-piperidinyl]acetyl]-5,11-dihydro-6H-pyrido[2,3-b][1,4]benzodiazepin-6-one
Batch number	E0992-1-1
Batch molecular formula	C ₂₄ H ₃₁ N ₅ O ₂
Batch molecular weight	421.54

Chemical Structure



Method

QC requirement

QC Result

HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 99.0%
NMR	¹ H NMR in DMSO at 300 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 40% PAW:BuOH shows one spot under ninhydrin	Meets specification: R _f =0.41
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in DMSO (25 mM)	Meets specification

Produced by Richard Patterson

Signature

Passed by Steve Roome

Signature

Date

21/10/2022

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