Certificate of Analysis

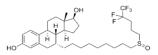


Product Identification Chemical Structure

HB2501 Catalog number Compound name Fulvestrant

 $7\alpha,17\beta\mbox{-}[9\mbox{-}[(4,4,5,5,5\mbox{-}Pentafluoropentyl)]sulfinyl]nonyl]estra-1,3,5(10)-triene-3,17-diol$ Chemical name

Batch number E1258-1-1 Batch molecular formula $C_{32}H_{47}F_5O_3$ 606.77 Batch molecular weight



Method	QC requirement	QC Result
HPLC NMR	Reverse Phase HPLC shows >98% purity 1H NMR in CDCl ₃ at 400 MHz consistent with structure	Meets specification: 100% 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 10% MeOH/DCM shows one spot under uv	Meets specification: R _f =0.5
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in DMSO (100 mM)	Meets specification

Produced by Signature

Signature Passed by

Date

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