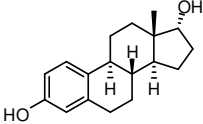




Certificate of Analysis

Axon Catalogue ID:	4212	Batch Number:	1
Product Name:	α-Estradiol		
Alternative Name(s):	Epiestradiol; 17α-Estradiol		
IUPAC Name:	(8R,9S,13S,14S,17R)-13-Methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthrene-3,17-diol		
Structure:			Amount:
CAS number(s):	57-91-0		
Molecular Formula:	C18H24O2	Molecular Weight:	272.38
Batch Molecular Formula:	C18H24O2	Batch Molecular Weight:	272.38
Appearance:	White solid	Observed mp:	224.0 - 224.5 °C
TLC (R_f):	0.6	DCM/MeOH (9:1)	
Chemical Purity:	99.3%		
Optical Purity (ee):	Optically pure		
Optical Rotation (Det.):	[α] _D = +72.2° with c = 1 in EtOH		
¹H-NMR:	Analytical data confirm chemical structure		
Mass Spec:	Analytical data confirm chemical structure		
Microanalysis:	Calculated: C 79.37, H 8.88, N 0.00; Found: C 79.26, H 8.89, N <0.10		
Storage Conditions:	Store at -20 °C		
Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM) Remarks
	Water	0.0	0.0 Insoluble
	0.1N NaOH (aq)		Not Tested
	0.1N HCl (aq)		Not Tested
	DMSO	27.2	>100 mM
	EtOH	27.2	>100 mM
Remarks:			
QC Date:	26-6-2024		

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to info@axonmedchem.com indicating Catalogue ID and Batch number.

Caution: Not fully tested. For research purposes only