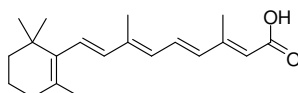




Certificate of Analysis

Axon Catalogue ID: 3321 **Batch Number:** 1
Product Name: Retinoic acid
Alternative Name(s): Vitamin A acid; ATRA; Tretinoin
IUPAC Name: (2E,4E,6E,8E)-3,7-Dimethyl-9-(2,6,6-trimethylcyclohex-1-enyl)nona-2,4,6,8-tetraenoic acid

Structure:



Amount:

CAS number(s): 302-79-4
Molecular Formula: C₂₀H₂₈O₂ **Molecular Weight:** 300.44
Batch Molecular Formula: C₂₀H₂₈O₂ **Batch Molecular Weight:** 300.44
Appearance: Yellow solid **Observed mp:** >181 °C (decomp)
TLC (R_f): 0.38 Hex/EtOAc/AcOH (4:1:0.1)
Chemical Purity: 99.5%
Optical Purity (ee): N.A.
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 79.96, H 9.39, N 0.00; Found: C 79.58, H 9.38, N <0.10
Storage Conditions: Store at +4 °C

Solubility Data:	Solvent	Solubility		Remarks
		(mg/ml)	(mM)	
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)	30.0	>100 mM	
	0.1N HCl (aq)			Not Tested
	DMSO	2.9	9.8	* Warming (40°C)
	EtOH			Not Tested

Remarks: * Warming (40°C) enhanced solubility.

QC Date: 21-01-2021

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