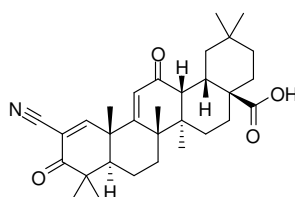




Certificate of Analysis

Axon Catalogue ID: 1950 **Batch Number:** 1
Product Name: CDDO
Alternative Name(s): Bardoxolone; RTA 401
IUPAC Name: 2-Cyano-3,12-dioxooleana-1,9(11)-dien-28-oic acid

Structure:



Amount:

CAS number(s): 218600-44-3
Molecular Formula: C₃₁H₄₁NO₄ **Molecular Weight:** 491.66
Batch Molecular Formula: C₃₁H₄₁NO₄·0.5H₂O **Batch Molecular Weight:** 500.67
Appearance: White solid **Observed mp:** 211 - 213 °C
TLC (R_f): 0.6 EtOAc
Chemical Purity: 98.6%
Optical Purity (ee): Optical pure
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 74.37, H 8.46, N 2.80; Found: C 74.39, H 8.72, N 3.05
Storage Conditions: Store at +4 °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	50.1	>100 mM	
	EtOH			Not Tested

Remarks:

QC Date: 28-03-2019

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