

**Product Name:** CDDO-Me

**Catalog No.:** 6646

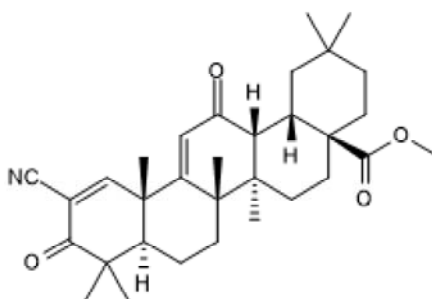
**Batch No.:** 1

CAS Number: 218600-53-4

IUPAC Name: 2-Cyano-3,12-dioxooleana-1,9(11)-dien-28-oic acid methyl ester

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>32</sub>H<sub>43</sub>NO<sub>4</sub>  
**Batch Molecular Weight:** 505.69  
**Physical Appearance:** Off White solid  
**Solubility:** DMSO to 50 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = +37.1 (Concentration = 0.68, Solvent = Chloroform)  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	76	8.57	2.77
Found	75.66	8.64	2.89

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Nrf2 pathway activator. Induces expression of Nrf-2 regulated, cytoprotective genes in vivo. Also blocks the NF-κB pathway by direct inhibition of IKKβ. Inhibits production of a wide range of inflammatory mediators in vitro.

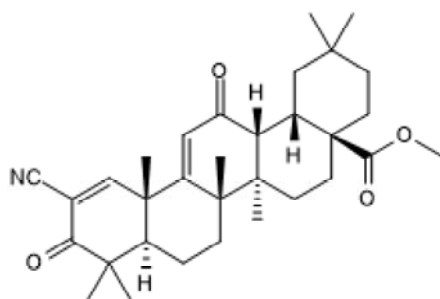
**Physical and Chemical Properties:**

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Batch Molecular Weight: 505.69

Physical Appearance: Off White solid

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**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 50 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Liby & Sporn** (2012) Synthetic oleanane triterpenoids: multifunctional drugs with a broad range of applications for prevention and treatment of chronic disease. *Pharmacol.Rev.* **64** 972. PMID: 22966038.

**Yates et al** (2007) Pharmacodynamic characterization of chemopreventive triterpenoids as exceptionally potent inducers of Nrf2-regulated genes. *Mol.Cancer Ther.* **6** 154. PMID: 17237276.

**Ahmad et al** (2006) Triterpenoid CDDO-Me blocks the NF-κB pathway by direct inhibition of IKKβ on Cys-179. *J.Biol.Chem.* **281** 35764. PMID: 16998237.

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