

Product Name: Pristimerin

Catalog No.: 3731

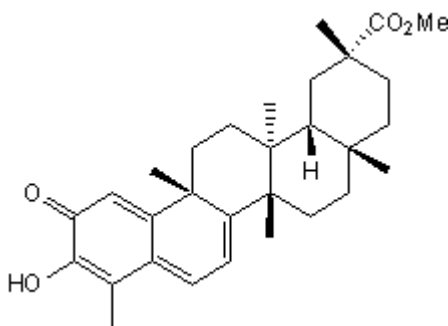
Batch No.: 1

CAS Number: 1258-84-0

IUPAC Name: (9 β ,13 α ,14 β ,20 α)-3-Hydroxy-9,13-dimethyl-2-oxo-24,25,26-trinoroleana-1(10),3,5,7-tetraen-29-oic acid methyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₀H₄₀O₄·½H₂O
Batch Molecular Weight: 473.65
Physical Appearance: orange solid
Solubility: DMSO to 25 mM
 ethanol to 10 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -167 (Concentration = 1, Solvent = Chloroform)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	76.07	8.72	
Found	76.38	8.94	

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Description:

Potent and reversible inhibitor of monoacylglycerol lipase (MGL) (IC₅₀ = 93 nM). Also suppresses NF- κ B activation via inhibition of proteasome chymotrypsin-like activity and IKK α β . Displays antitumor, anti-inflammatory and antimicrobial activities.

Physical and Chemical Properties:

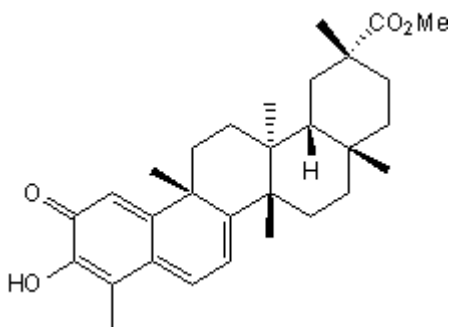
Batch Molecular Formula: C₃₀H₄₀O₄ · ½H₂O

Batch Molecular Weight: 473.65

Physical Appearance: orange solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 25 mM
ethanol to 10 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:

Byun et al (2009) Reactive oxygen species-dependent activation of Bax and Poly(ADP)-ribose polymerase-1 is required for mitochondrial cell death induced by triterpenoid Pristimerin in human cervical cancer cells. *Mol.Pharmacol.* **76** 734. PMID: 19574249.

Tiedemann et al (2009) Identification of a potent natural triterpenoid inhibitor of proteasome chymotrypsin-like activity and NF- κ B with antimyeloma activity in vitro and in vivo. *Blood* **113** 4027. PMID: 19096011.

King et al (2009) Discovery of potent and reversible monoacylglycerol lipase inhibitors. *Chem.Biol.* **16** 1045. PMID: 19875078.

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