Product Name: Pristimerin Catalog No.: 3731 Batch No.: 1
CAS Number: 1258-84-0
IUPAC Name: (9β,13α,14β,20α)-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: \( C_{30}H_{40}O_4 \cdot \frac{1}{2}H_2O \)
   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: \([\alpha]_D = -167\) (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-κB activation via inhibition of proteasome chymotrypsin-like activity and IKKeβ. Displays antitumor, anti-inflammatory and antimicrobial activities.

Physical and Chemical Properties:
Batch Molecular Formula: C₅₀H₆₀O₄·½H₂O
Batch Molecular Weight: 473.65
Physical Appearance: orange solid
Minimum Purity: >99%

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 aliquotted 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: