1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{29}H_{38}O_{4}
Batch Molecular Weight: 450.61
Physical Appearance: Red solid
Solubility: DMSO to 100 mM, ethanol to 75 mM
Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
\textsuperscript{1}H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 77.3 8.5
Found 76.97 8.73
Product Name: Celastrol
Catalog No.: 3203
Batch No.: 3

CAS Number: 34157-83-0
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

Description:
Antioxidant and anti-inflammatory agent. Potently inhibits lipid peroxidation in mitochondria and inhibits TNF-α-induced NFκB activation. Also shown to inhibit topoisomerase II activity in vitro (IC50 = 7.41 μM).

Physical and Chemical Properties:
Batch Molecular Formula: C29H38O4
Batch Molecular Weight: 450.61
Physical Appearance: Red solid
Minimum Purity: >99%

Storage: Store at -20°C

Solubility & Usage Info:
DMSO to 100 mM
ethanol to 75 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: