Celastrol
(\(9\beta,13\alpha,14\beta,20\alpha\))-3-Hydroxy-9,13-dimethyl-2-oxo-24,25,26-trinorolean-1(10),3,5,7-tetraen-29-oic acid
Cat. # SI9740

**Background:** Celastrol is naturally occurring triterpenoid antioxidant compound with anti-inflammatory activity. Inhibits NF\(\kappa\)B (IC\(_{50}\) = 270 nM). It induces heat shock response and cytoprotection in various cells. Celastrol inhibits 20S proteasome chymotrypsin-like activity (IC\(_{50}\) = 2.5 \(\mu\)M). Cell permeable.

**Application:** Inhibition of NF\(\kappa\)B-dependent pathways and of 20S proteasome chymotrypsin-like activity.

**Product Information**
- **CAS No.** 34157-83-0
- **Purity:** > 98% (TLC); NMR (Conforms)
- **Molecular Weight:** 450.6 Da
- **Physical State:** Red powder
- **Quantity:** 10 mg, 50 mg
- **Solubility:** DMSO (45mg/ml) or Ethanol (30mg/ml)
- **Storage:** Store desiccated as supplied at 4°C for up to 2 years. Store solutions at -20°C for up to one month. Protect from light.

**Formula:** C\(_{29}\)H\(_{38}\)O\(_{4}\)

**References**

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