

Celastrol, Proteasome inhibitor

Catalog	Unit
TBI2187-5MG	5 mg
TBI2187-25MG	25 mg

Product Details

Formal 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

Molecular Formula: C₂₉H₃₈O₄

Formula Weight: 450.62

CAS Number: 34157-83-0

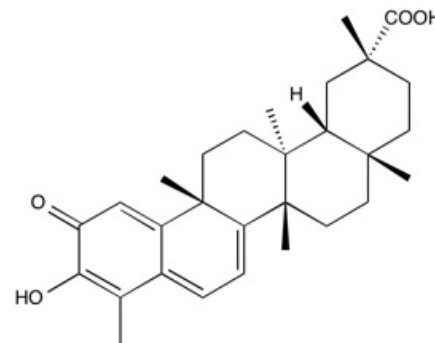
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 45 mg/ml) or in Ethanol (up to 30 mg/ml).

Storage: -20°C

Stability: \geq 2 years.



Applications

Proteasome inhibitor

Functions

Displays potent antioxidant and anti-inflammatory activity. Inhibits NF κ B (IC₅₀=270 nM). It induces heat shock response and cytoprotection in various cells. Inhibits 20S proteasome chymotrypsin activity (IC₅₀=2.5 μ M). Induces autophagy by targeting AR/miR-101 in prostate cancer cells. Induces UPR-dependent cell death in cancer cells. Cell permeable.

Application Procedures

First dissolved in DMSO (up to 45 mg/ml) or in Ethanol (up to 30 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 1 month.

For research use only.