Celastrol

Anti-inflammatory and immunosuppressive

Cell permeable triterpenoid; anti-inflammatory and immunosuppressive compound. Antioxidant. Suppresses LPS-induced cytokine release in macrophages and monocytes (IC_{50}=40nM for IL-1β and IL-1α, 80nM for IL-6, 110nM for prostaglandin E_2 and 210nM for IL-8 and TNF-α). Suppresses nitric oxide (NO) production (IC_{50}=230nM) and LPS-induced NF-κB activation (IC_{50}=270nM). Inhibits chymotrypsin-like activity of 20S proteasome (IC_{50}=2.5μM). Inhibits lipid peroxidation induced by ADP and Fe^{2+} in rat liver mitochondria (IC_{50}=7μM). Induces expression of a wider set of heat shock proteins. Inhibits topoisomerase II.

Citations: 20 View Online »

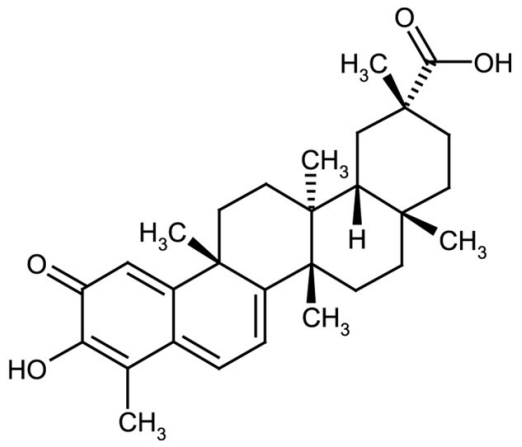
Ordering Information

Order Online »

ALX-350-332-M005	5mg

Manuals, SDS & CofA

View Online »


O
H3C
OH
CH3
H3C
H
CH3
O
CH3
HO
CH3

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Handling	Protect from light.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Tripterine, 3-Hydroxy-24-nor-2-oxo-1(10),3,5,7-friedelatetraen-29-oic acid
Appearance	Red cubic crystals.
CAS	34157-83-0
Couple Target	Proteasome, Topoisomerase
Couple Type	Inhibitor
Formula	$C_{29}H_{38}O_4$
MI	**14:** 10370
MW	450.6
Purity	≥98% (HPLC)
Solubility	Soluble in 100% ethanol, DMSO or dimethyl formamide; insoluble in water.
Source	Isolated from the root of *Tripterygium* sp.

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