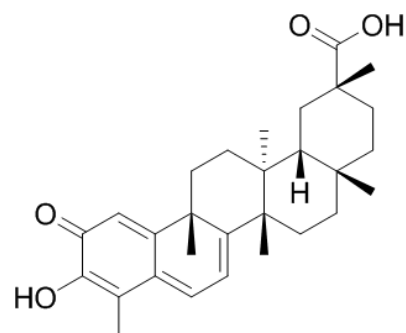


Product Name : Celastrol
Cat. No. : PC-43371
CAS No. : 34157-83-0
Molecular Formula : C₂₉H₃₈O₄
Molecular Weight : 450.6096
Target : Proteasome
Solubility : 10 mM in DMSO



Biological Activity

Celastrol (Tripterin) is an active compound extracted from Chinese medicine Thunder of God Vine, is a potent proteasome inhibitor, preferentially inhibits the chymotrypsin-like activity of 20S proteasome with IC₅₀ of 2.5 μM; also inhibits 26S proteasome in intact androgen-independent PC-3 and androgen-dependent LNCaP prostate cancer cells at 1-5 μM, induces apoptotic cell death, and accumulates ubiquitinated proteins and natural proteasome substrates, IκB-α, Bax, and p27, and/or suppression of AR protein expression; promotes significant tumor growth inhibition and massive apoptosis induction in vivo.

References

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Chen M, et al. *Mol Cancer Res.* 2009 Dec;7(12):1946-53.
Ge P, et al. *Neurol Res.* 2010 Feb;32(1):94-100.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com