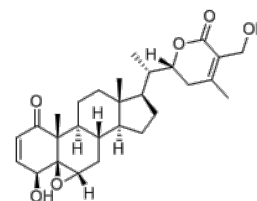


Product Name : Withaferin A
Cat. No. : PC-62155
CAS No. : 5119-48-2
Molecular Formula : C₂₈H₃₈O₆
Molecular Weight : 470.6
Target : NF-κB
Solubility : 10 mM in DMSO



Biological Activity

Withaferin A is a steroid lactone that displays anti-inflammatory, antitumor and antiangiogenic activity, potently inhibits **NF-κB** activation by preventing the TNF-induced activation of IKKβ via a thioalkylation-sensitive redox mechanism. Withaferin A potently inhibits the chymotrypsin-like activity of a purified rabbit 20S proteasome (IC₅₀=4.5 μM) and 26S proteasome in human prostate cancer cultures (at 5-10 μM) and xenografts (4-8 mg/kg/day), inhibits cell proliferation in HUVECs (IC₅₀ =12 nM).

References

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Yang H, et al. *Mol Pharmacol.* 2007 Feb;71(2):426-37.
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Caution: Product has not been fully validated for medical applications. Lab Use Only!

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