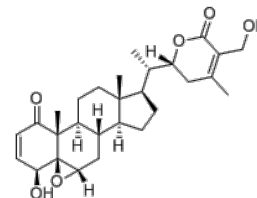


**Product Name** : Withaferin A  
**Cat. No.** : PC-62155  
**CAS No.** : 5119-48-2  
**Molecular Formula** : C<sub>28</sub>H<sub>38</sub>O<sub>6</sub>  
**Molecular Weight** : 470.6  
**Target** : NF-κB  
**Solubility** : 10 mM in DMSO



## 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 (IC<sub>50</sub>=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 (IC<sub>50</sub> =12 nM).

## References

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Kaileh M, et al. *J Biol Chem.* 2007 Feb 16;282(7):4253-64.  
Yang H, et al. *Mol Pharmacol.* 2007 Feb;71(2):426-37.  
Mohan R, et al. *Angiogenesis.* 2004;7(2):115-22.

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

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