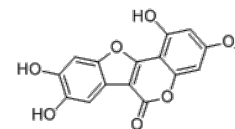


**Product Name** : Wedelolactone  
**Cat. No.** : PC-20897  
**CAS No.** : 524-12-9  
**Molecular Formula** : C<sub>16</sub>H<sub>10</sub>O<sub>7</sub>  
**Molecular Weight** : 314.25  
**Target** : IκB kinase (IKK)  
**Solubility** : 10 mM in DMSO



CAS: 524-12-9

## Biological Activity

Wedelolactone is a small molecule inhibitor of LPS-induced caspase-11 expression by directly inhibits the IKK Complex, also inhibits 5-lipoxygenase with IC<sub>50</sub> of 2.5 μM.

Wedelolactone induces caspase-dependent apoptosis in prostate cancer cells via downregulation of PKCε without inhibiting Akt. enhances bone marrow mesenchymal stem cells (BMSC) differentiation towards osteoblasts.

Wedelolactone inhibits GSK3β activity and increases β-catenin and runx2 nuclear accumulation in BMSC, and inhibits the effect of RANKL.

Wedelolactone decreases bone volume and trabecular number at the femur after ovariectomy, and prevents the VOX-induced bone loss.

## References

Kobori M, et al. Cell Death Differ. 2004 Jan;11(1):123-30.

Liu YQ, et al. Sci Rep. 2016 Aug 25;6:32260.

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

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