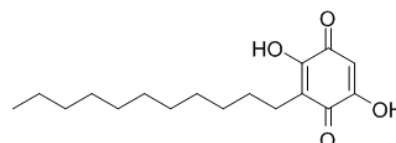


**Product Name** : Embelin  
**Cat. No.** : PC-45289  
**CAS No.** : 550-24-3  
**Molecular Formula** : C<sub>17</sub>H<sub>26</sub>O<sub>4</sub>  
**Molecular Weight** : 294.3859  
**Target** : IAP  
**Solubility** : 10 mM in DMSO



### Biological Activity

Embelin (Embelic acid, Emberine, NSC-91874) is a cell-permeable benzoquinone compound that exhibits antitumor properties, specifically antagonizes **XIAP**-mediated inhibition of caspase-9 activation by directly targeting the Smac and caspase-9 binding domain BIR3 (IC<sub>50</sub>=4.1 uM).

Embelin has anti-inflammatory activities in both acute and chronic irritant contact dermatitis in vivo.

Embelin also inhibits plasminogen activator inhibitor-1 (PAI-1) with IC<sub>50</sub> of 1.62 uM.

### References

Siegel C, et al. *Proc Natl Acad Sci U S A*. 2011 Jul 12;108(28):11662-7.

Kalyan Kumar G, et al. *Eur J Pharmacol*. 2011 Jul 15;662(1-3):63-9.

Lin Z, et al. *Chem Biol*. 2013 Feb 21;20(2):253-61.

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

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