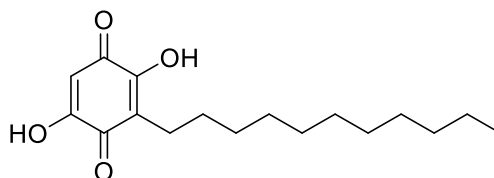


Embelin

Code No.: **BIA-E2354**

Pack sizes: **0.1 mg, 0.5 mg**



Synonyms : Embelic acid, Emberine, NSC 91874

Specifications

CAS #	: 550-24-3
Molecular Formula	: C ₁₇ H ₂₆ O ₄
Molecular Weight	: 294.39
Source	: <i>Embelia ribes</i>
Appearance	: Orange solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

Embelin is benzoquinone metabolite isolated from *Embelia ribes* first reported in 1931. Embelin has a broad bioprofile, including antioxidant, anti-inflammatory, antitumor, antibacterial, antiviral, antidiabetic and anti-estrogenic activities. Embelin inhibits cell proliferation, induces G1 arrest and triggers apoptosis in CRPC cells, possibly via the Akt/NF-κB/survivin signaling pathway. Embelin is a privileged structure for the synthesis of antibacterial compounds.

References

1. CCLXXXVIII.—The constitution and synthesis of embelic acid (embelin), the active principle of *Embelia Ribes*. Hasan K.H. & Stedman E. J Chem Soc. 1931.
2. Antioxidant properties of embelin in cell culture: Electrochemistry and theoretical mechanism of scavenging. Potential scavenging of superoxide radical through the membrane cell. Caruso F. et al. Antioxidants 2020, 9, 382.
3. Inhibition of Akt/NF-κB/survivin pathway by embelin on castration-resistant prostate cancer cells Xu T. et al. Int J Clin Exp Med. 2017, 10, 4386.
4. Efficient multicomponent synthesis of diverse antibacterial embelin-privileged structure conjugates. Martin-Acosta P. et al. Molecules 2020, 25, 3290.