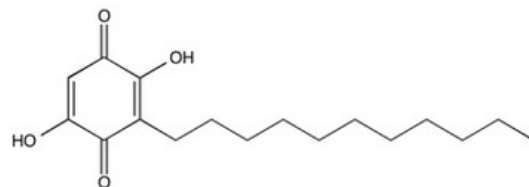


Embelin, XIAP inhibitor; Apoptosis inducer

Catalog	Unit
TBI2959-10MG	10 mg
TBI2959-50MG	50 mg

Product Details

Formal Name: 2,5-Dihydroxy-3-undecyl-2,5-cyclohexadiene-1,4-dione
Molecular Formula: C₁₇H₂₆O₄
Formula Weight: 294.39
CAS Number: 550-24-3
Purity: >98%
Formulation: powder
Solubility: Soluble in DMSO (up to 30 mg/ml) or in Ethanol (up to 3 mg/ml with warming)
Storage: -20°C
Stability: ≥ 2 years.



Applications

XIAP inhibitor; Apoptosis inducer

Functions

Inhibits the lysine acetyl transferase PCAF in vitro and in vivo (in vitro IC₅₀=7.2 μM). Inhibits H3K9 acetylation in mouse liver tissue while leaving levels of H3K14, H4K8, H4K12 unchanged¹. Also inhibits X-linked inhibitor of apoptosis (XIAP) (IC₅₀ = 4.1 μM, competing with Smac peptide). Binds to the BIR3 domain, preventing XIAP interaction with caspase-9 and Smac. Induces apoptosis and alters gene expression profiles in breast cancer cells³. Possesses anti-inflammatory and analgesic activity in vivo⁴. Cell-permeable.

Application Procedures

First dissolved in DMSO (up to 30 mg/ml) or in Ethanol (up to 3 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO or Ethanol may be stored at -20°C for up to 2 months.

For research use only.