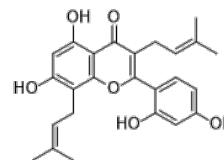


**Product Name** : Kuwanon C  
**Cat. No.** : PC-25519  
**CAS No.** : 62949-79-5  
**Molecular Formula** : C<sub>25</sub>H<sub>26</sub>O<sub>6</sub>  
**Molecular Weight** : 422.48  
**Target** : Sirtuin  
**Solubility** : 10 mM in DMSO



### Biological Activity

Kuwanon C (KWN-C, Mulberrin) is an effective inhibitor of organic anion-transporting polypeptide 2B1 (OATP2B1)-mediated estrone-3-sulfate (E3S) uptake with IC<sub>50</sub> of 1.8 μM, also inhibits SIRT1 activity via targeting activity of the TGF-β1-Smad2/3-JNK1 signaling pathway.

KWN-C suppressed pSmad2/3-JNK1 levels, which subsequently abrogated the phosphorylation of SIRT1S27 and SIRT1S47.

KWN-C decreases KRASMut activity via reducing SIRT1 activity and enhancing the acetylation of KRASMut.

KWN-C synergistically decreased KRASMut lung cancer proliferation combined with Cisplatin and Pemetrexed.

KWN-C synergistically reduces tumor burden in lung orthotropic models bearing KRAS G12C combined with Cisplatin and Pemetrexed.

### References

Wen F, et al. Identification of natural products as modulators of OATP2B1 using LC-MS/MS to quantify OATP-mediated uptake. *Pharm Biol.* 2016;54(2):293-302.

Shin DH, et al. *Exp Mol Med.* 2025 Sep 12. doi: 10.1038/s12276-025-01536-8.

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

E-mail: tech@probechem.com