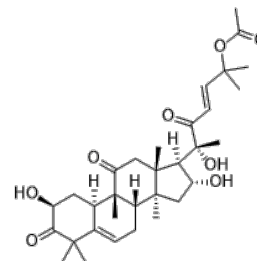


Product Name : Cucurbitacin B
Cat. No. : PC-24650
CAS No. : 6199-67-3
Molecular Formula : C₃₂H₄₆O₈
Molecular Weight : 558.71
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

Cucurbitacin B (CuB) is a potent but toxic anticancer natural product, an irreversible covalent inhibitor of IGF2BP1 and forms a covalent bond with cysteine 253 of the IGF2BP1 KH 1-2 domain (KD=66.8 nM).

Cucurbitacin B inhibits the proliferation of various tumors in vitro and in vivo, including liver cancer, breast cancer, myeloid leukemia, renal cell carcinoma, prostate cancer, non-small cell lung cancer (NSCLC).

Cucurbitacin B destabilizes IGF2BP1-regulated target mRNA and induces tumor cell apoptosis, which in turn attracts immune cells to the tumor microenvironment.

References

Liu Yang, et al. ACS Central Science (2022), 8 (8), 1102-1115.

Shang FF, et al. J Med Chem. 2023 Sep 28;66(18):12931-12949.

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

E-mail: tech@probechem.com