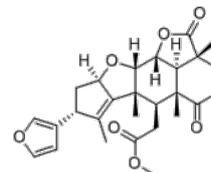


Product Name : Nimbolide
Cat. No. : PC-21374
CAS No. : 25990-37-8
Molecular Formula : C₂₇H₃₀O₇
Molecular Weight : 466.53
Target : E3 Ubiquitin Ligase
Solubility : 10 mM in DMSO



Biological Activity

Nimbolide is a natural product derived from the Neem tree, inhibits E3 ligase activity of **RNF114**, blocks PARP1 degradation and causes PARP1 trapping.

Nimbolide treatment is synthetically lethal in BRCA-deficient tumor cells.

Nimbolide is also able to kill BRCA-deficient tumor cells with intrinsic and acquired resistance to conventional PARPi.

Nimbolide has significant bactericidal activity against *H. pylori*, killing both free living bacterial cells as well as cells within a biofilm.

Nimbolide targeting SIRT1 mitigates intervertebral disc degeneration by reprogramming cholesterol metabolism and inhibiting inflammatory signaling.

References

Li P, et al. *Sci Adv.* 2023 Oct 27;9(43):eadg7752.

Mehmetoglu-Gurbuz T, et al. *Antioxidants (Basel).* 2023 Sep 22;12(10):1791.

Wylie MR, et al. *J Ethnopharmacol.* 2022 Mar 1;285:114828.

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

E-mail: tech@probechem.com