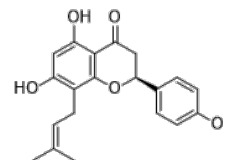


Product Name : 8-prenylnaringenin
Cat. No. : PC-23327
CAS No. : 53846-50-7
Molecular Formula : C₂₀H₂₀O₅
Molecular Weight : 340.38
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

8-prenylnaringenin (8PN) is a prenylflavonoid isolated from hop cones *Humulus lupulus* with cytotoxicity, is a small molecule inhibitor of CUB domain-containing protein 1 (CDCP1) and reduces CDCP1 protein levels in cancer cells. 8-prenylnaringenin has anti-proliferative activity against HCT-116 colon cancer cells via induction of intrinsic and extrinsic pathway-mediated apoptosis.

8-Prenylnaringenin also promotes recovery from immobilization-induced disuse muscle atrophy through activation of the Akt phosphorylation pathway in mice.

8-Prenylnaringenin causes the accumulation of lung cancer cells in G0/G1 phase.

Combination therapy effectively reduced tumor growth and enhanced tumor necrosis in tumor xenograft mice models.

8PN increases interleukin (IL)6 and IL8 expression, induces neutrophil infiltration, and enhances neutrophil-mediated cytotoxicity to attenuate lung cancer cell growth.

References

Huang H, et al. *J Immunother Cancer*. 2024 Oct 24;12(10):e009416.

Wong SC, et al. *Mol Oncol*. 2023 Aug;17(8):1648-1665.

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

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