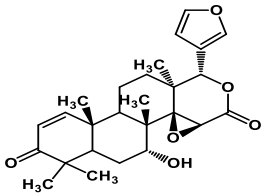
7-Deacetylgedunin

Name of the Phytochemical	**7-Deacetylgedunin**
Chemical Structure	
Botanical Source	Azadirachta indica
CAS Number	10314-90-6
Functional Activity	• Dervative of Gedunin, a naturally occurring Hsp90 inhibitor • In vitro, Gedunin induces Hsp90-dependent client protein degradation and displays antiproliferative activity
Key References	**1.** 7-deacetylgedunin suppresses inflammatory responses through activation of Keap1/Nrf2/HO-1 signaling**. Oncotarget, 2017, 8, 55051-55063** 2. Kikuchi T, Ishii K, Noto T, Takahashi A, Tabata K, Suzuki T, Akihisa T Cytotoxic and apoptosis-inducing activities of limonoids from the seeds of Azadirachta indica (neem). **Journal of natural products, 2011, 74, 866-870**

	3. Evaluation of effect of triterpenes and limonoids on cell growth, cell cycle and apoptosis in human tumor cell line. *Anti-cancer Agents in Medicinal Chemistry, 2010, 10, 769-76* 4. A systematic protocol for the characterization of Hsp90 modulators. *Bioorganic & Medicinal Chemistry, 2011, 19, 684-92* 5. Gedunin, a novel natural substance, inhibits ovarian cancer cell proliferation. *International Journal of Gynecological Cancer, 2009, 19, 1564-9* 6. Gedunin, a novel hsp90 inhibitor: semisynthesis of derivatives and preliminary structure-activity relationships. *Journal of Medicinal Chemistry, 2008, 51, 6495-502* 7. Gedunin, a limonoid from Xylocarpus granatum, inhibits the growth of CaCo-2 colon cancer cell line in vitro. *Phytotherapy Research, 2007, 21, 757-61* 8. Gene expression signature-based chemical genomic prediction identifies a novel class of HSP90 pathway modulators. *Cancer Cell, 2006, 10, 321-30* 9. Inhibition of allergen-induced eosinophil recruitment by natural tetranortriterpenoids is mediated by the suppression of IL-5, CCL11/eotaxin and NFkappaB activation. *International Immunopharmacology, 2006, 6, 109-21* 10. Chen JY, Zhu GY, Su XH, Wang R, Liu J, Liao K, Ren R, Li T, Liu L. 7-deacetylgedunin suppresses inflammatory responses through activation of Keap1/Nrf2/HO-1 signaling. Oncotarget, 2017, 8, 55051-55063