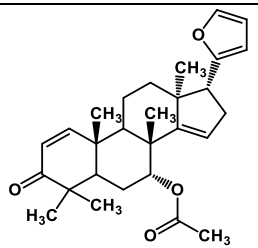
Azadirone

Name of the Phytochemical	**Azadirone**
Chemical Structure	
Botanical Source	Azadirachta indica
CAS Number	25279-67-8
Functional Activity	• possess potent cytotoxic activity against a panel of human cancer cell lines • Possess anti-inflammatory ad analgesic activity
Key References	1. Nitric Oxide Production-Inhibitory Activity of Limonoids from Azadirachta indica and Melia azedarach. **Chem Biodivers. 2017, 14** 2. Melanogenesis-Inhibitory Activities of Isomeric C-seco Limonoids and Deesterified Limonoids. **Chem Biodivers. 2016, 13,1410-1421** 3. Azadirachta indica triterpenoids promote osteoblast differentiation and mineralization in vitro and in vivo. **Bioorg Med Chem Lett. 2016, 26, 3719-24**

	4. Azadirone, a limonoid tetranortriterpene, induces death receptors and sensitizes human cancer cells to tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) through a p53 protein-independent mechanism: evidence for the role of the ROS-ERK-CHOP-death receptor pathway. **J Biol Chem. 2013, 288, 32343-56.** 5. Biological investigation and structure activity relationship studies on azadirone from azadirachta indica juss. **J Bioorg & Med Chem. Lett. 2003, 13, 4111-4115**