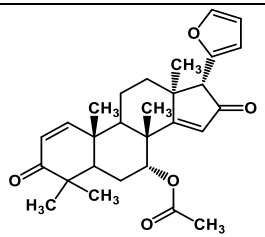
Azadiradione

Name of the Phytochemical	**Azadiradione**
Chemical Structure	
Botanical Source	Azadirachta indica
CAS Number	26241-51-0
Functional Activity Yet to correct	• Exhibits Anti-nociceptive, anti-inflammatory,cytoprotective and Anti-secretory activity • Restores Protein Quality Control • Ameliorates the Disease Pathogenesis in Huntington's disease • Alleviates dopaminergic neurodegeneration
Key References	1. Azadiradione ameliorates polyglutamine expansion disease in *Drosophila* by potentiating DNA binding activity of heat shock factor 1. Oncotarget, 2016,7, 78281 2. Azadiradione Restores Protein Quality Control and Ameliorates the Disease Pathogenesis in a Mouse Model of Huntington's Disease. Molecular Neurobiology,2018, 55, 6337 3. Gedunin and Azadiradione: Human Pancreatic Alpha-Amylase Inhibiting Limonoids from Neem (Azadirachta indica) as Anti-Diabetic Agents. Plos One, 2015,10, e0140113. 4. Azadiradione exerts anti-inflammatory and anti-oxidant effects, alleviates dopaminergic neurodegeneration and reduces α-synuclein levels in MPTP-induced mouse model of Parkinson's disease . **Tropical Journal of Pharmaceutical Research, 2019, 18, 2331**

	5. Anti-nociceptive and anti-inflammatory activities of Azadirachta indica fruit skin extract and its isolated constituent azadiradione. **Natural products research, 2013, 27, 1463** 6. Azadiradione: a multi-targets compound with new therapeutic approach. **Asian Journal of Phytomedicine and Clinical Research, 2018, 6, 115-120** 7. Cytoprotective and Anti-secretory Effects of Azadiradione Isolated from the Seeds of Azadirachta indica (neem) on Gastric Ulcers in Rat Models. Phytother Res., *2015, 29, 910-6* 8. Cytotoxic and Apoptosis-Inducing Activities of Limonoids from the Seeds of Azadirachta indica (Neem). J. Nat. Prod.,2011, 74, 866-870