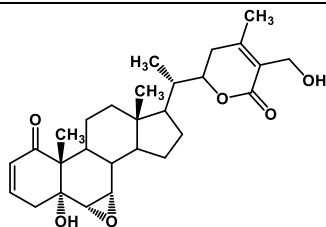


12-Deoxywithastramonolide

Name of the Phytochemical	12-Deoxywithastramonolide
Chemical Structure	
Botanical Source	Withania somnifera
CAS Number	60124-17-6
Functional Activity	<ul style="list-style-type: none"> • It has antioxidant and neuroprotective activity • It helps to promote neurite outgrowth at 1 μM in cultured neurons • Reverses hypoxia-mediated neurodegeneration by restoring hypoxia-induced glutathione depletion in the hippocampus of mice • Reduces the growth of A549 lung and HT-29 colorectal cancer cells
Key References	<ol style="list-style-type: none"> 1. Enrichment of aglycone fractions with immunomodulatory potential: Stability and pharmacokinetic of Withania bioactives. <i>Food Res. Int.</i>, 2013, 54, 867-872 2. Cytotoxicity of withasteroids: Withametelin induces cell cycle arrest at G₂/M phase and mitochondria-mediated apoptosis in non-small cell lung cancer A549 cells. <i>Tumour Biol.</i>, 2016, 37, 12579-12587