Diosgenin is a steroidal saponin found in Dioscorea that exhibits anticancer, anti-inflammatory, neuroprotective, cognition enhancing, and anti-hyperlipidemic activities. In breast cancer cells, diosgenin inhibits cell migration, actin polymerization, Vav2 phosphorylation, and Cdc42 activation. In macrophages, diosgenin inhibits production of NO and ROS, expression of iNOS, IL-6, and IL-1β, and activation of JNK. Additionally, diosgenin improves performance on object recognition memory tasks and decreases amyloid-β (Aβ) plaque formation in the cortex and hippocampus of animal models of Alzheimer’s disease. In diabetic mice, this compound decreases levels of triglycerides and inhibits activation of LXRα, ameliorating dyslipidemia.

References


Caution: This product is intended for laboratory and research use only. It is not for human or drug use.