Formononetin is a phytoestrogen and isoflavone originally found in legumes in the Fabaceae family. Formononetin exhibits anti-inflammatory, antioxidative, anticancer, antihypertensive, anti-parasitic, anti-osteoporotic, and pro-angiogenic activities.

Formononetin decreases expression of COX-2, malondialdehyde, TNF-α, and IL-6 and increases activity of superoxide dismutase and glutathione peroxidase in animal models of traumatic brain injury. In prostate cancer cells, formononetin increases expression of Bax and suppresses expression of IGF-1R, inducing apoptosis and inhibiting proliferation. In spontaneously hypertensive rats, formononetin decreases systolic blood pressure, increases expression of eNOS, and decreases expression of 5-HT receptors and α1-adrenergic receptors. Additionally, formononetin inhibits attachment and motility of Giardia. This compound also induces mesenchymal stem cell differentiation, increases expression of VEGF and VEGFR2, and promotes bone fracture healing.

References


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