



Product Information

Product ID S0930

CAS No. 58546-56-8

Chemical Name

Synonym Schisantherin A, Gomisin C, Wuweizi ester A

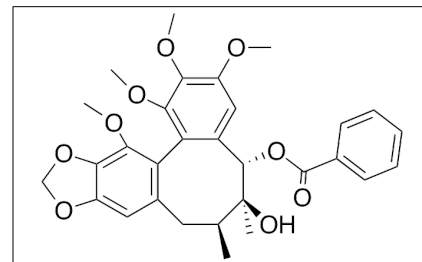
Formula $C_{30}H_{32}O_9$

Formula Wt. 536.58

Melting Point 116-118°C

Purity ≥98%

Solubility



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
S0930	5 mg	\$201.40
S0930	10 mg	\$330.00

Store Temp 4°C

Ship Temp Ambient

Description Schisantherin A is a dibenzocyclooctadiene originally found in *Schisandra* that exhibits anti-tussive, sedative, anti-inflammatory, anti-osteoporotic, neuroprotective, cognition enhancing, and cardioprotective activities. In macrophages, schisantherin A decreases LPS-induced expression and activity of iNOS, COX-2, NO, IL-6, and TNF- α . Schisantherin A also decreases RANKL-induced NF- κ B signaling by inhibiting I κ B α degradation and suppressing JNK and ERK1/2 activation in vitro; it also inhibits osteoclast function and bone erosion in vivo. In animal models of Alzheimer's disease, schisantherin A inhibits amyloid- β (A β)-induced learning and memory impairments in Y maze, shuttle box, and Morris water maze assays. Additionally, this compound lowers left ventricular systolic and end diastolic pressures, decreases infarct size and maldionaldehyde release, and increases superoxide dismutase activity, preventing myocardial apoptosis in animal models of cardiac ischemia/reperfusion.

References He Y, Zhang Q, Shen Y, et al. Schisantherin A suppresses osteoclast formation and wear particle-induced osteolysis via modulating RANKL signaling pathways. *Biochem Biophys Res Commun*. 2014 Jul 4;449(3):344-50. PMID: 24845381.

Li X, Zhao X, Xu X, et al. Schisantherin A recovers A β -induced neurodegeneration with cognitive decline in mice. *Physiol Behav*. 2014 Jun 10;132:10-6. PMID: 24813830.

Chang R, Li Y, Yang X, et al. Protective role of deoxyschizandrin and schisantherin A against myocardial ischemia-reperfusion injury in rats. *PLoS One*. 2013 Apr 19;8(4):e61590. PMID: 23620773.

Ci X, Ren R, Xu K, et al. Schisantherin A exhibits anti-inflammatory properties by down-regulating NF- κ B and MAPK signaling pathways in lipopolysaccharide-treated RAW 264.7 cells. *Inflammation*. 2010 Apr;33(2):126-36. PMID: 20238486.

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