



Product Information

Product ID S0132

CAS No. 20736-09-8

Chemical Name

Synonym

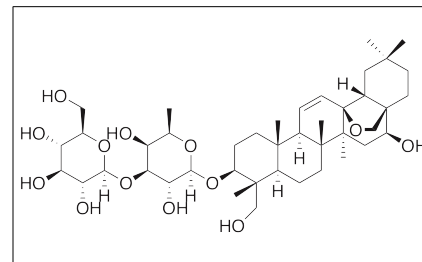
Formula $C_{42}H_{68}O_{13}$

Formula Wt. 780.98

Melting Point 225-232°C

Purity ≥98%

Solubility Soluble in DMSO.



Bulk quantities available upon request

| Product ID | Size |
|------------|------|
| S0132 | 1 mg |
| S0132 | 5 mg |

Store Temp -20°C

Ship Temp Ambient

Description Saikosaponin A is a triterpene saponin found in *Bupleurum* that exhibits anti-inflammatory, analgesic, neuromodulatory, anticancer, and immunosuppressive activities. Saikosaponin A decreases production of TNF- α , IL-1 β , and IL-2 and increases mechanical withdrawal thresholds and thermal withdrawal thresholds in animal models of chronic constructive injury. Saikosaponin A also decreases self-administration of cocaine and morphine. In colon carcinoma cells, saikosaponin A causes activation of caspases 2, 3, 8, and 9 and PARP, induces apoptosis, and decreases expression of Bcl-2 and XIAP. Additionally, this compound inhibits the proliferation and activation of ConA-treated T cells, inducing G0/G1 phase cell cycle arrest and decreasing expression of TNF- α , IL-2, and IFN- γ .

References Zhou X, Cheng H, Xu D, et al. Attenuation of Neuropathic Pain by Saikosaponin a in a Rat Model of Chronic Constriction Injury. *Neurochem Res.* 2014 Aug 9. [Epub ahead of print]. PMID: 25107300.

Yoon SS, Seo JW, Ann SH, et al. Effects of saikosaponin A on cocaine self-administration in rats. *Neurosci Lett.* 2013 Oct 25;555:198-202. PMID: 24076136.

Kim BM, Hong SH. Sequential caspase-2 and caspase-8 activation is essential for saikosaponin a-induced apoptosis of human colon carcinoma cell lines. *Apoptosis.* 2011 Feb;16(2):184-97. PMID: 21107704.

Sun Y, Cai TT, Zhou XB, et al. Saikosaponin a inhibits the proliferation and activation of T cells through cell cycle arrest and induction of apoptosis. *Int Immunopharmacol.* 2009 Jul;9(7-8):978-83. PMID: 19375524.

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