



LKT Laboratories, Inc.

S-(-)-Schisandrin B

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Product Information

Product ID S0831

CAS No. 61281-37-6

Chemical Name Benzo(3,4)cycloocta(1,2-f)(1,3)benzodioxole, 5,6,7,8-tetrahydro-1,2,3,13-tetramethoxy-6,7-dimethyl-, stereoisomer

Synonym γ -Schisandrin, S(-) Wuweizisu B, S(-) Schizandrin B

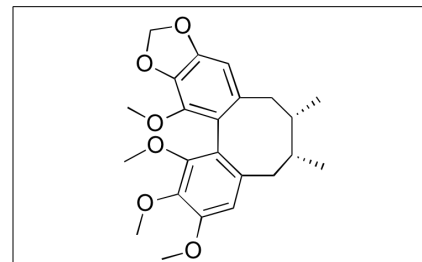
Formula C₂₃H₂₈O₆

Formula Wt. 400.47

Melting Point 100-102 °C

Purity ≥98%

Solubility



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
S0831	5 mg	\$147.80
S0831	10 mg	\$242.20

Store Temp 4 °C

Ship Temp Ambient

Description Schisandrin B is found in *Schisandra*; it exhibits anti-fibrotic, anti-inflammatory, cardioprotective, hepatoprotective, neuroprotective, and anti-metastatic activities. In vitro, schisandrin B decreases TGF- β 1-induced myosin light chain phosphorylation and Smad signaling, preventing stress fiber formation. In animal models of myocardial infarction, schisandrin B downregulates expression of pro-inflammatory cytokines and inhibits myocardial apoptosis, decreasing infarct size and improving heart function and survival rates. Schisandrin B also increases expression of HSP27 and HSP70, inhibiting acetaminophen-induced liver injury and hepatic necrosis. In animal models of cerebral ischemia/reperfusion, this compound decreases expression of IL-1 β and TNF- α and prevents degradation of matrix metalloproteinases 2 and 9 (MMP2/9), decreasing infarct volume. Additionally, schisandrin B inhibits invasion of breast cancer cells by suppressing the epithelial to mesenchymal transition (EMT), increasing survival rates in vivo. TEST!!!!!!

References Chun JN, Kim SY, Park EJ, et al. Schisandrin B suppresses TGF β 1-induced stress fiber formation by inhibiting myosin light chain phosphorylation. *J Ethnopharmacol.* 2014 Mar 14;152(2):364-71. PMID: 24486209.

Li L, Zhang T, Zhou L, et al. Schisandrin B attenuates acetaminophen-induced hepatic injury through heat-shock protein 27 and 70 in mice. *J Gastroenterol Hepatol.* 2014 Mar;29(3):640-7. PMID: 24219791.

Chen P, Pang S, Yang N, et al. Beneficial effects of schisandrin B on the cardiac function in mice model of myocardial infarction. *PLoS One.* 2013 Nov 8;8(11):e79418. PMID: 24260217.

Lee TH, Jung CH, Lee DH. Neuroprotective effects of Schisandrin B against transient focal cerebral ischemia in Sprague-Dawley rats. *Food Chem Toxicol.* 2012 Dec;50(12):4239-45. PMID: 22960133.

Liu Z, Zhang B, Liu K, et al. Schisandrin B attenuates cancer invasion and metastasis via inhibiting epithelial-mesenchymal transition. *PLoS One.* 2012;7(7):e40480. PMID: 22848381.

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