

Product Information

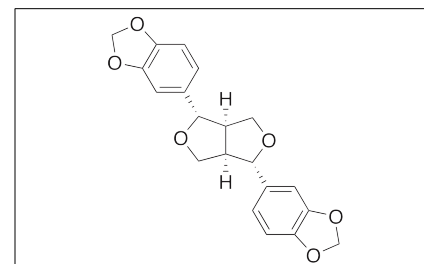
Product ID S1872
CAS No. 607-80-7
Chemical Name 5,5'-(1S,3aR,4S,6aR)-tetrahydro-1H,3H-furo[3,4-c]furan-1,4-diylbis(1,3-benzodioxole)

Synonym

Formula C₂₀H₁₈O₆
Formula Wt. 354.35
Melting Point 114-129 °C
Purity ≥98%
Solubility

Store Temp -20 °C
Ship Temp Blue Ice

Description Sesamin is a lignin extracted from the seeds of the *Sesamin indicum* plant. Sesamin exhibits antioxidative and anticancer activities. In cellular models, sesamin suppresses STAT3 signaling, promoting cell cycle arrest and apoptosis of hepatocellular carcinoma cells. This compound activates ERK/MAPK and p38 signaling to induce osteoblast differentiation in vitro and reverses pathological changes associated with osteoarthritis in vivo. Sesamin also protects against oxidative stress in spontaneously hypertensive rats and animal models of oxidative liver damage.



Bulk quantities available upon request

Product ID	Size
S1872	5 mg
S1872	10 mg
S1872	25 mg

References Deng P, Wang C, Chen L, et al. Sesamin Induces Cell Cycle Arrest and Apoptosis through the Inhibition of Signal Transducer and Activator of Transcription 3 Signalling in Human Hepatocellular Carcinoma Cell Line HepG2. *Biol Pharm Bull.* 2013;36(10):1540-1548. PMID: 24088253.

Liu CM, Zheng GH, Ming QL, et al. Sesamin protects mouse liver against nickel-induced oxidative DNA damage and apoptosis by the PI3K-Akt pathway. *J Agric Food Chem.* 2013 Feb 6;61(5):1146-54. PMID: 23317420.

Li WX, Kong X, Zhang JX, et al. Long-term intake of sesamin improves left ventricular remodelling in spontaneously hypertensive rats. *Food Funct.* 2013 Feb 26;4(3):453-60. PMID: 23238059.

Phitak T, Pothacharoen P, Settakorn J, et al. Chondroprotective and anti-inflammatory effects of sesamin. *Phytochemistry.* 2012 Aug;80:77-88. PMID: 22704650.

Wanachewin O, Boonmaleerat K, Pothacharoen P, et al. Sesamin stimulates osteoblast differentiation through p38 and ERK1/2 MAPK signaling pathways. *BMC Complement Altern Med.* 2012 May 30;12:71. PMID: 22646286.

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