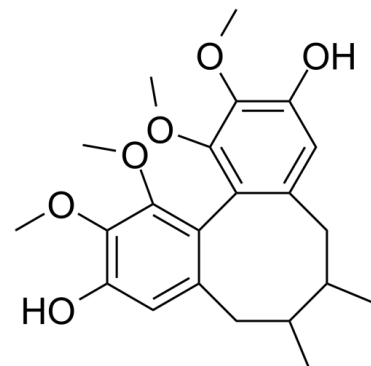


## Data Sheet

|                           |  |
|---------------------------|--|
| <b>Product Name:</b>      | Gomisin J  |
| <b>Cat. No.:</b>          | CS-0008925   |
| <b>CAS No.:</b>           | 66280-25-9   |
| <b>Molecular Formula:</b> | C <sub>22</sub> H <sub>28</sub> O <sub>6</sub>                                   |
| <b>Molecular Weight:</b>  | 388.45   |
| <b>Target:</b>            | AMPK; Calcium Channel  |
| <b>Pathway:</b>           | Epigenetics; Membrane Transporter/Ion Channel; Neuronal Signaling; PI3K/Akt/mTOR |
| <b>Solubility:</b>        | DMSO : 100 mg/mL (257.43 mM; Need ultrasonic)                                    |



### BIOLOGICAL ACTIVITY:

Gomisin J is a small molecular weight lignan found in *Schisandra chinensis* and has been demonstrated to have vasodilatory activity [1]. Gomisin J suppresses lipid accumulation by regulating the expression of lipogenic and lipolytic enzymes and inflammatory molecules through activation of **AMPK**, **LKB1** and **Ca<sup>2+</sup>/calmodulin-dependent protein kinase II** and inhibition of **fetuin-A** in HepG2 cells. Gomisin J has potential benefits in treating nonalcoholic fatty liver disease [2]. IC50 & Target: AMPK, LKB1, Ca<sup>2+</sup>/calmodulin-dependent protein kinase II, fetuin-A [2]

### References:

[1]. Ye BH, et al. Preventive effect of gomisin J from *Schisandra chinensis* on angiotensin II-induced hypertension via an increased nitric oxide bioavailability. *Hypertens Res.* 2015 Mar;38(3):169-77.

[2]. Kim M, et al. Gomisin J Inhibits Oleic Acid-Induced Hepatic Lipogenesis by Activation of the AMPK-Dependent Pathway and Inhibition of the Hepatokine Fetuin-A in HepG2 Cells. *J Agric Food Chem.* 2015 Nov 11;63(44):9729-39.

### CAIndexNames:

Dibenzo[a,c]cyclooctene-3,10-diol, 5,6,7,8-tetrahydro-1,2,11,12-tetramethoxy-6,7-dimethyl-, (6R,7S,12aS)-

### SMILES:

OC1=C(OC)C(OC)=C(C2=C(OC)C(OC)=C(O)C=C2CC(C)C(C)C3)C3=C1

**Caution: Product has not been fully validated for medical applications. For research use only.**

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