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## Product Data Sheet

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Product Name: Gomisin D

Cat. No.: GC36176

### Chemical Properties

Cas. No. 60546-10-3

SMILES COC1=C(OC)C(OC)=CC2=C1C3=C(CC(C)C(C)(O)C2O4)C=C(OCO5)C5=C3OCC(C)C(C)(O)C4=OFormula C<sub>28</sub>H<sub>34</sub>O<sub>10</sub> M.Wt 530.56

Solubility DMSO: 10mM Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure 

### Background

Gomisin D is a lignan that has been found in *S. chinensis* and has diverse biological activities, including enzyme inhibitory and antioxidant properties.<sup>1,2,3</sup> It inhibits acetylcholinesterase (AChE) with an IC<sub>50</sub> value of 7.84 μM.<sup>1</sup> Gomisin D scavenges ABTS and 2,2-diphenyl-1-picrylhydrazyl radicals (IC<sub>50</sub>s = 24.5 and 203 μM, respectively).<sup>3</sup> It inhibits the UDP-glucuronosyltransferase (UGT) isoforms UGT1A1 and UGT1A3 by 89.9 and 83.1%, respectively, when used at a concentration of 100 μM.<sup>2</sup> It is selective for UGT1A1 and UGT1A3 over other UGT isoforms at 100 μM.

1. Hung, T.M., Na, M., Min, B.S., et al. Acetylcholinesterase inhibitory effect of lignans isolated from *Schizandra chinensis* Arch. Pharm. Res. 30(6)685-690(2007) 2. Song, J.-H., Cui, L., An, L.-B., et al. Inhibition of UDP-glucuronosyltransferases (UGTs) activity by constituents of *Schisandra chinensis* Phytother. Res. 29(10)1658-1664(2015) 3. Poornima, B., Kumar, D.A., Siva, B., et al. Advanced glycation end-products inhibitors isolated from *Schisandra grandiflora* Nat. Prod. Res. 30(4)493-496(2016)

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

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