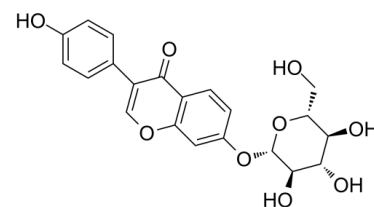


Data Sheet

Product Name:	Daidzin
Cat. No.:	CS-4237
CAS No.:	552-66-9
Molecular Formula:	C ₂₁ H ₂₀ O ₉
Molecular Weight:	416.38
Target:	Mitochondrial Metabolism; Reverse Transcriptase
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Solubility:	DMSO : ≥ 34 mg/mL (81.66 mM)



BIOLOGICAL ACTIVITY:

Daidzin is an isoflavone that has anti-oxidant, anti-carcinogenic, and anti-atherosclerotic activities; directly inhibits mitochondrial aldehyde dehydrogenase 2 (IC₅₀ = 80 nM) and is an effective anti-dipsotropic isoflavone.

References:

- [1]. Xie CI, et al. Daidzin, an antioxidant isoflavonoid, decreases blood alcohol levels and shortens sleep time induced by ethanol intoxication. Alcohol Clin Exp Res. 1994 Dec;18(6):1443-7.
- [2]. Keung WM, et al. Kudzu root: an ancient Chinese source of modern antidipsotropic agents. Phytochemistry. 1998 Feb;47(4):499-506.
- [3]. Keung WM, et al. Daidzin inhibits mitochondrial aldehyde dehydrogenase and suppresses ethanol intake of Syrian golden hamsters. Proc Natl Acad Sci U S A. 1997 Mar 4;94(5):1675-9.

CAIndexNames:

4H-1-Benzopyran-4-one, 7-(β-D-glucopyranosyloxy)-3-(4-hydroxyphenyl)-

SMILES:

OC1=CC=C(C2=COC(C=C(O[C@H]3[C@H](O)[C@@H](O)[C@H](O)[C@@H](CO)O3)C=C4)=C4C2=O)C=C1

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

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