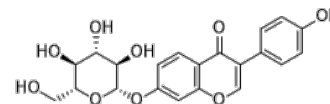


Product Name : Daidzin
Cat. No. : PC-27271
CAS No. : 552-66-9
Molecular Formula : C₂₁H₂₀O₉
Molecular Weight : 416.38
Target : Aldehyde Dehydrogenase (ALDH)
Solubility : 10 mM in DMSO



Biological Activity

Daidzin is a 7-glucoside of 4',7-dihydroxyisoflavone and a potent, selective, competitive inhibitor of human mitochondrial aldehyde dehydrogenase (ALDH-I, ALDH2) with K_i of 40 nM, >1000-fold selective over cytosolic aldehyde dehydrogenase isozyme (ALDH-II).

Daidzin does not inhibit human class I, II, or III alcohol dehydrogenases.

Daidzin can suppress ethanol intake of this species without blocking acetaldehyde metabolism.

Daidzin suppresses hamster ethanol intake also inhibit 5-HIAA and DOPAC formation.

Daidzin shows effective anti-inflammatory and antioxidant potential.

References

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Caution: Product has not been fully validated for medical applications. Lab Use Only!

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