Cat No. 30-Z35

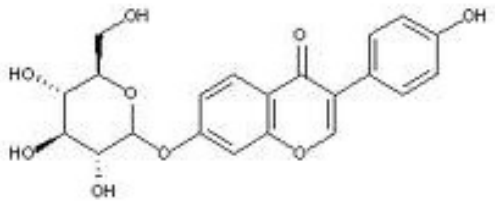
Daidzin

1mg

For research purposes only

Daidzin is a glucoside of the isoflavone daidzein found in soy beans. It demonstrates chemopreventive activities by inhibiting the bioactivation of carcinogenic arylamines. It is also a potent, selective inhibitor of human mitochondrial aldehyde dehydrogenase. Daidzin was the most potent isoflavone glycoside tested in modulating differrentiation of bone marrow stromal cells towards osteoblasts and away from adipocytes.

TECHNICAL INFORMATION



Other Names: 7-(β-D-glucopyranosyloxy)-3-(4-hydroxyphenyl-4H-1-benzopyran-4-one

Chemical Formula: $C_{21}H_{20}O_9$

CAS Number: 552-66-9

PubChem Substance ID: 11992452

Molecular Weight: 416.38

Purity: >98%

Appearance: White Crystalline solid

Solubility: DMSO

IC_{50} : 80 nM

STORAGE AND HANDLING

Storage: Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

Soluble in DMSO.

REFERENCES

1. Zhang. L., et al. (2012). Intestinal absorbability of three radix peurariae isoflavones including daidzin, daidzin and puerarin. Chin Med. 23:6-41.
2. Yang. L., et al. (2012). Preparation of highly pure daidzin on oligo-β-cyclodextrin-sepharose HP and investigation of chromatographic behavior of isoflavones by molecular docking. J Chromatogr B Analyt Technol Biomed Life Sci. 879:1773-80.
3. Zhang. H., et al. (2012). A model for the shuttle motions of puerarin and daidzin inside the cavity of β-cyclodextrin in aqueous acetic acid: insights: from molecular dynamics simulations. J Mol Model. 18:221-7.