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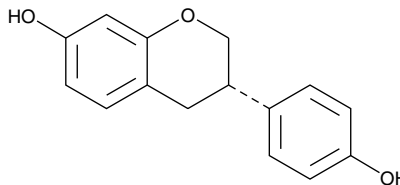
Product Information



(S)-Equol

Item No. 10010173

CAS Registry No.: 531-95-3
Formal Name: (S)-3,4-dihydro-3-(4-hydroxyphenyl)-2H-1-benzopyran-7-ol
Synonyms: 4'-7-Dihydroxyisoflavan, (-)-Equol, 4',7-Isolavandioid
MF: C₁₅H₁₄O₃
FW: 242.3
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 225, 283 nm



Laboratory Procedures

For long term storage, we suggest that (S)-equol be stored as supplied at -20°C. It should be stable for at least two years.

(S)-Equol is supplied as a crystalline solid. A stock solution may be made by dissolving the (S)-equol in an organic solvent purged with an inert gas. (S)-Equol is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of (S)-equol in these solvents is approximately 15 mg/ml.

(S)-Equol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, (S)-equol should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. (S)-Equol has a solubility of approximately 0.1 mg/ml in a 1:10 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Equol is a non-steroidal estrogen produced from the metabolism of the isoflavonoid phytoestrogen daidzein by human intestinal microflora.^{1,2} The estrogen receptor (ER) agonist activity of the naturally occurring (S)-enantiomer (EC₅₀ = 85 and 65 nM for human ER α and ER β , respectively) is similar to that of daidzein but exceeds that of daidzein.² (S)-Equol preferentially binds ER β (K_i = 0.73 nM) and demonstrates approximately 9-fold lower affinity for ER α (K_i = 6.41 nM).¹ (S)-equol is also a potent antagonist of dihydrotestosterone, which has important implications for prostate cancer and other androgen-mediated pathologies.³

References

1. Setchell, K.D.R., Clerici, C., Lephart, E.D., *et al.* S-equol, a potent ligand for estrogen receptor β , is the exclusive enantiomeric form of the soy isoflavone metabolite produced by human intestinal bacterial flora. *Am. J. Clin. Nutr.* **81**, 1072-1079 (2005).
2. Muthyala, R.S., Ju, Y.H., Sheng, S., *et al.* Equol, a natural estrogenic metabolite from soy isoflavones: Convenient preparation and resolution of R- and S-equols and their differing binding and biological activity through estrogen receptors α and β . *Bioorg. Med. Chem.* **12**, 1559-1567 (2004).
3. Lund, T.D., Munson, D.J., Haldy, M.E., *et al.* Equol is a novel anti-androgen that inhibits prostate growth and hormone feedback. *Biol. Reprod.* **70**, 1188-1195 (2004).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10010173

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

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