Data Sheet (Cat.No.T4000)

TargetMol®
A DRUG SCREENING EXPERT

(±)-Equol

Chemical Properties

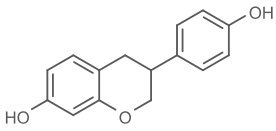
CAS No. : 94105-90-5

Formula: C15H14O3

Molecular Weight: 242.3

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	(±)-Equol ((R,S)-Equol) is a non-steroidal estrogen produced from the metabolism of the isoflavonoid phytoestrogen daidzen by human intestinal microflora. The estrogen receptor (ER) agonist activity of the naturally occurring (S)-enantiomer (EC50 = 85 and 65 nM for human ERα and ERβ, respectively) is similar to that of genistein but exceeds that of daidzein. (±)-Equol ((R,S)-Equol) preferentially binds ERβ (Ki = 0.73 nM) and demonstrates approximately 9-fold lower affinity for ERα (Ki = 6.41 nM). (±)-Equol ((R,S)-Equol) is also a potent antagonist of dihydrotestosterone, which has important implications for prostate cancer and other androgen-mediated pathologies.
Targets(IC50)	Estrogen Receptor/ERR,Estrogen/progestogen Receptor,Drug Metabolite

Solubility Information

Solubility	DMSO: 100 mg/mL (412.76 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1271 mL	20.6356 mL	41.2712 mL
5 mM	0.8254 mL	4.1271 mL	8.2542 mL
10 mM	0.4127 mL	2.0636 mL	4.1271 mL
50 mM	0.0825 mL	0.4127 mL	0.8254 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Mahalingam S, Gao L, Gonnering M, Helferich W, et al.Toxicol Appl Pharmacol. 2016 Mar 15;295:47-55.
Hazim S, Curtis PJ, Schär MY, et al.Am J Clin Nutr. 2016 Mar;103(3):694-702.

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