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DATASHEET

Daidzein

Product overview

Name	Daidzein
Cat No	HB2488
Biological action	Agonist
Purity	>98%
Description	Estrogen receptors (ER) agonist. Phytoestrogen.

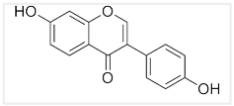
Biological Data

Biological description	Estrogen receptors (ER) agonist. Soy phytoestrogen and genistein analog. Also shows activity at PPARs. Shows both estrogenic/anti-estrogenic activity, induces apoptosis and anticancer effects. Active *in vivo*.

Solubility & Handling

Storage instructions	-20°C (desiccate)
Solubility overview	Soluble in DMSO (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	7-Hydroxy-3-(4-hydroxyphenyl)-4*H*-1- benzopyran-4-one
Molecular Weight	254.24
Chemical structure	
Molecular Formula	$C_{15}H_{10}O_4$
CAS Number	486-66-8
PubChem identifier	5281708
SMILES	C1=CC(=CC=C1C2=COC3=C(C2=O)C=CC(=C3)O)O
InChi	InChI=1S/C15H10O4/c16-10-3-1-9(2-4-10)13-8-19-14-7-11(17)5-6-12(14)15(13)18/h1-8,16-17H
InChiKey	ZQSIJRDFPHDXIC-UHFFFAOYSA-N
MDL number	MFCD00016954

References

Isoflavone metabolites and their in vitro dual functions: they can act as an estrogenic agonist or antagonist depending on the estrogen concentration.

Hwang CS *et al* (2006) J Steroid Biochem Mol Biol 101(4-5)
PubMedID 16965913

Daidzein induced apoptosis via down-regulation of Bcl-2/Bax and triggering of the mitochondrial pathway in BGC-823 cells.

Tang S *et al* (2013) Cell Biochem Biophys 65(2)
PubMedID 22926545

Daidzein causes cell cycle arrest at the G1 and G2/M phases in human breast cancer MCF-7 and MDA-MB-453 cells.

Choi EJ *et al* (2008) Phytomedicine 15(9)
PubMedID 18541420