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DATASHEET

Genistein

Product overview

Name	Genistein
Cat No	HB2775
Biological action	Agonist
Purity	>98%
Description	Protein tyrosine kinase inhibitor and PPARγ agonist. Phytoestrogen.

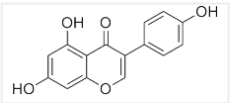
Biological Data

Biological description	Phytoestrogen. Protein tyrosine inhibitor and PPARγ and PPARα agonist (K_i values = 5.7 nM at PPARγ). Also binds estrogen receptors to exert weak estrogenic activity. Shows variety of biological actions.

Solubility & Handling

Storage instructions	-20°C (desiccate)
Solubility overview	Soluble in DMSO (100 mM)
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	5,7-Dihydroxy-3-(4-hydroxyphenyl)-4 *H*-1-benzopyran-4-one
Molecular Weight	270.24
Chemical structure	
Molecular Formula	$C_{15}H_{10}O_5$
CAS Number	446-72-0
PubChem identifier	5280961
SMILES	OC1=CC=C(C=C1)C1=COC2=C(C(O)=CC(O)=C2)C1=O
InChi	InChI=1S/C15H10O5/c16-9-3-1-8(2-4-9)11-7-20-13-6-10(17)5-12(18)14(13)15(11)19/h1-7,16-18H
InChiKey	TZBJGXHYKVUXJN-UHFFFAOYSA-N
MDL number	MFCD00016952

References

Genistein, a specific inhibitor of tyrosine-specific protein kinases.

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Natural product agonists of peroxisome proliferator-activated receptor gamma (PPARγ): a review.

Wang L *et al* (2014) Biochem Pharmacol 92(1)
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Genistein increases epidermal growth factor receptor signaling and promotes tumor progression in advanced human prostate cancer.

Nakamura H *et al* (2011) PLoS One 6(5)
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