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DATASHEET

Genistein

Product overview

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

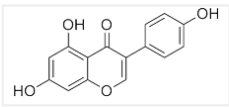
Biological Data

Biological description	Phytoestrogen. Protein tyrosine inhibitor and PPAR γ and PPAR α agonist (K_i values = 5.7 nM at PPAR γ). Also binds estrogen receptors to exert weak estrogenic activity. Shows variety of biological actions.
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Solubility & Handling

Storage instructions	-20°C (desiccate)
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
InChiKey	TZBJGXHYKVUXJN-UHFFFAOYSA-N

References

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

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PubMedID [3106339](#)

Natural product agonists of peroxisome proliferator-activated receptor gamma (PPAR γ): 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)

PubMedID

[21603581](#)
