Genistein
4',5,7-Trihydroxyisoflavone

PRODUCT ANALYSIS SHEET

Catalog Number: PHZ1074
Lot Number: See product label
Quantity: 20 mg
Appearance: Off-white solid

Molecular Formula: C_{15}H_{10}O_{5}
Molecular Weight: 270.2
Purity: 98%

Summary: Genistein inhibits tyrosine phosphorylation in isolated enzyme and receptor preparations, as well as with whole cells including platelets, lymphocytes, and a variety of cultured cells. Inhibition is competitive with ATP and noncompetitive with substrate.

Biological Activity: A concentration of 100 μg/mL is observed to completely inhibit EGF-stimulated tyrosine phosphorylation with A431 epidermoid carcinoma cells.

Solubility: Soluble in DMSO at a concentration of 30 mg/mL; soluble in ethanol at a concentration of 4 mg/mL.

Sterility: This product is not sterile.

Storage: Store, as supplied at room temperature. Upon solubilization, apportion into working aliquots and store at −20°C. Avoid repeated freeze/thaw cycles. Solutions are stable at −20°C for up to one month. Because this compound is subject to oxidation, it is recommended that dilutions be made fresh on a daily basis.

Expiration Date: Expires one year from date of receipt when stored as instructed.

Related Products: EGFR Sample Pack, Cat. # 44-799

References:

Caution: Avoid contact with eyes, skin, and mucous membranes. Wear protective clothing when handling this product. Not for human use.

This product is for research use only. Not for use in diagnostic procedures.

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