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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Genistein

Tyrosine kinase inhibitor
Catalog No. SIH-446



Discovery through partnership | Excellence through quality

Overview

Product Name

Genistein

Description

Tyrosine kinase inhibitor

Purity

>98% (HPLC)

CAS No.

446-72-0

Molecular Formula

C₁₅H₁₀O₂

Molecular Weight

270.2

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Soluble in DMSO (30 mg/ml), 100% ethanol (4 mg/ml) or dilute aqueous base; insoluble in water

Source

Synthetic

Appearance

Creamy off-white solid

SMILES

C1=C(O)C=C(C2=C1OC=C(C2=O)C3=CC=C(O)C=C3)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

Safety Phrases

Classification:

Acute toxicity, Oral (Category 4), H302

Safety Phrases:

S22 - Do not breathe dust.

S24/25 - Avoid contact with skin and eyes.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Hazard statements:

H302 Harmful if swallowed

Precautionary statements:

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/ container to an approved waste disposal plant.

Cite This Product

Genistein (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-446)

Biological Description

Alternative Names

4',5,7-Trihydroxyisoflavone, 5,7-Dihydroxy-3-(4-hydroxyphenyl)-4H-1-benzopyran-4-one, 4',5,7-Trihydroxyisoflavone, 5,7-Dihydroxy-3-(4-hydroxyphenyl)-4H-1-benzopyran-4-one

Research Areas

Cancer, Apoptosis, Cancer Growth Inhibitors, Cell Signaling, Tyrosine Kinase Inhibitors

PubChem ID

5280961

Scientific Background

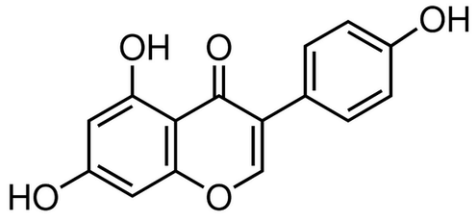
Genistein has a wide range of biological actions. It is an inhibitor of tyrosine protein kinase, including epidermal growth factor receptor kinase. It also inhibits DNA topoisomerase and β -glucosidase. It produces cell cycle arrest and apoptosis, and inhibits endocytosis, as well as, inhibits insulin-induced glucose uptake in adipocytes.

References

1. Akiyama T., et al. (1987) J Biol. Chem. 262(12): 55925595.
 2. Bazuine M., van den Broek P.J.A., & Maassen J. A. (2005) Biochem. Biophys. Res. Comm. 326(2): 511514.
 3. Linossier C., Pierre M., Le Pecq J.B., & Pierre J. (1990) Biochem. Pharm. 39(1): 187193.
 4. Dean N.M., Kanemitsu M., & Boynton A.L. (1989) Biochem. Biophys. Res. Comm. 165(2): 795801.
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Product Images

Chemical structure of Genistein (SIH-446), a Tyrosine kinase inhibitor. CAS #: 446-72-0. Molecular Formula: C₁₅H₁₀O₅. Molecular Weight: 270.2 g/mol.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.