

CERTIFICATE OF ANALYSIS

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| PRODUCT: | Genistein [4',5,7-Trihydroxyisoflavone] C ₁₅ H ₁₀ O ₅ , M.W. 270.24, CAS# [446-72-0] |
| PRODUCT NUMBER: | G-1015 |
| LOT NUMBER: | J1041 |
| APPEARANCE: | Pale yellow crystalline powder |
| SOLUBILITY: | Slightly soluble in 100% ethanol (4 mg/mL) or DMSO (30 mg/mL). Insoluble in water. |
| PURITY (HPLC): | 98.6% |
| RESIDUE UPON IGNITION / SULFATED ASH: | 0.2% |
| LOSS on DRYING: | 0.13% |
| HEAVY METALS: | 10ppm |
| PRODUCT INFORMATION: | Tyrosine protein kinase inhibitor. Inhibits phosphorylation of EGFR kinase. Inhibits tumor cell proliferation and induces tumor cell differentiation. Inhibits topoisomerase II activity <i>in vivo</i> . Produces cell cycle arrest and apoptosis. Potent inhibitor of α -glucosidase, IC ₅₀ = 50nM. Direct inhibitor of insulin-induced glucose uptake in adipocytes (IC ₅₀ = 20 μ M). |
| STORAGE & HANDLING: | Store desiccated at +4°C. For long term storage, store at -20°C. PROTECT FROM LIGHT! <u>WARNING:</u> HARMFUL! MAY BE CARCINOGENIC! |

CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: KLS