

## CERTIFICATE of ANALYSIS

<b>PRODUCT:</b>	<b>Daidzein</b> [7,4'-Dihydroxyisoflavone]; 7-Hydroxy-3-(4-hydroxyphenyl)-4 <i>H</i> -1-benzopyran-4-one (synthetic) C <sub>15</sub> H <sub>10</sub> O <sub>4</sub> , M.W. 254.2, CAS # [486-66-8], M.I. 14: 2801
<b>PRODUCT NUMBER:</b>	D-1019
<b>LOT NUMBER:</b>	E1097C
<b>APPEARANCE:</b>	White to off-white solid powder
<b>PURITY (TLC):</b>	98.0%
<b>NMR:</b>	Conforms
<b>SOLUBILITY:</b>	Soluble in DMSO (25 mg/mL); slightly soluble in 100% ethanol (2 mg/mL); insoluble in water
<b>PRODUCT DESCRIPTION:</b>	Inactive analog of the tyrosine kinase inhibitor genistein (Prod.# G-1015). Shares with genistein a number of effects thought to be unrelated to tyrosine kinase inhibition. These include activation of the human estrogen receptor, induction of differentiation in leukemia cells and inhibition of fast Na <sup>+</sup> channels. Shows anti-inflammatory effect. A phytoestrogen found in soy products. Inhibits insulin or IGF-1 mediated signaling in cell cycle progression of Swiss 3T3 cells. Improves glucose homeostasis in a type 2 diabetic mouse model. May be metabolized to S-equol (another phytoestrogen) in the gut by intestinal microflora. Cell permeable and active <i>in vivo</i> .
<b>STORAGE &amp; HANDLING:</b>	Store desiccated at -20°C. <b><u>WARNING:</u> IRRITANT!</b>  CAUTION: For research 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: KS