

## Genistein, Tyrosine Kinase Inhibitor

### Product Specifications

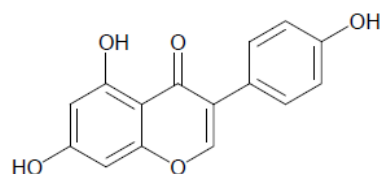
<b>Catalog Number:</b>	HPK-103
<b>Product Description:</b>	Genistein (4',5,7-Trihydroxyisoflavone) Tyrosine Kinase Inhibitor
<b>Format:</b>	Off-white solid (m.p. 297-298°C), soluble in DMSO (30 mg/mL) and ethanol (4 mg/mL)
<b>Application:</b>	Tyrosine Kinase Inhibitor <i>The optimal dilution for a specific application must be determined by the investigator</i>
<b>Purity:</b>	> 98% pure
<b>Molecular Weight:</b>	~ 270.2 kDa observed
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>10</sub> O <sub>5</sub>
<b>Concentration:</b>	See product label
<b>Storage:</b>	Store at room temperature up to 1 year. Make fresh solutions daily.
<b>Related Products:</b>	
HPK-106	LY-294002, PI <sub>3</sub> Kinase Inhibitor
HPK-110	SB-203580, p38 MAP kinase Inhibitor
HPK-112	Staurosporine, Kinase Inhibitor
HPK-114	Wortmannin, PI3 Kinase Inhibitor

### Background:

Subject to oxidation, Genistein (4',5,7-Trihydroxyisoflavone) inhibits tyrosine phosphorylation in isolated enzyme and receptor preparations and in whole cells<sup>1-5</sup> and cultured cells<sup>6-9</sup>. In cultured A431 epidermoid carcinoma cells, epidermal growth factor stimulated tyrosine phosphorylation was totally inhibited by genistein at 100 µg/mL<sup>9</sup>. Inhibition is competitive with ATP and noncompetitive with substrate.

### References:

- Dhar, A., *et al.* (1990) *Mol Pharmacol.* **37**, 519.
- Gaudette, D.C. and Holub, B.J. (1990) *Biochem Biophys Res Commun.* **170**, 238.
- Mustelin, T., *et al.* (1990) *Science* **247**, 1584.
- Trevillyan, J.M. *et al.* (1990) *J Immunol.* **145**, 3223.
- Lane, P.J.L., *et al.* (1991) *J Immunol.* **146**, 715.
- Linossier, C., *et al.* (1990) *Biochem Pharmacol.* **39**, 187.
- Markovits, J., *et al.* (1989) *Cancer Res.* **49**, 5711.
- Dean, N.M., *et al.* (1989) *Biochem Biophys Res Commun.* **165**, 795.
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Structure

Generally reagents are good for one year from the date of receipt, except for conjugates which are good for six months and reagents with an expiration date indicated on the label or other supporting document.

**FOR RESEARCH USE ONLY; NOT FOR THERAPEUTIC OR DIAGNOSTIC USE**

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