



**Catalog Number:** PR80005

**Product Type:** Recombinant Protein

**Source:** ISOKine™ recombinant human SCF is produced in the endosperm tissue of barley grain (*Hordeum vulgare*), that exhibits up to 50 times less protease activity than *E.coli* or mammalian cells. Barley seed is void of any human or animal viral contaminants that could jeopardize your cell culture.

**Description/Molecular Mass:** Recombinant human SCF contains 165 amino acids and a 16 a.a. histidine-based tag for a total length of 181 a.a. and has a predicted molecular mass of 20.7 kDa including his-tag. As a result of glycosylation, the recombinant protein migrates with an apparent molecular mass of 22-24 kDa in SDS-PAGE.

**Activity:** Each batch of ISOKine™ growth factor is tested for bioactivity and verified to have comparable activity to a commercial source. Bioactivity of ISOKine™ recombinant human SCF is measured by its dose-dependent effect on the proliferation of TF-1 cells. The ED50 of this effect is typically between 2 - 10 ng/ml corresponding to specific activity of 1 – 5 x 10<sup>5</sup> U/mg. We recommend that the optimal concentration for each specific application be determined by an initial dose-response assay.

**Endotoxin Level:** Endotoxin level is less than 0.005ng per µg of ISOKine™ product (0.05EU/µg) as measured by turbidimetric kinetic assay. \* \* Ref. Associates of Cape Cod Industries, Deacon Park, Knowsley, Liverpool, UK

**MAT Assay:** Purified ISOKine™ product carries no pyrogenic or pro-inflammatory contaminants, as assayed with monocyte activation test using Human 10-plex Cytokine Assay measuring IL-6, TNF-alpha and IL-1beta induction. \*\* \*\* Ref. The Blood Bank, University Hospital of Iceland, Reykjavik, Iceland

**Purity:** Greater than 95% by SDS-PAGE gel analysis

**Format:** Lyophilized . PBS, pH 7.2, sterile filtered.

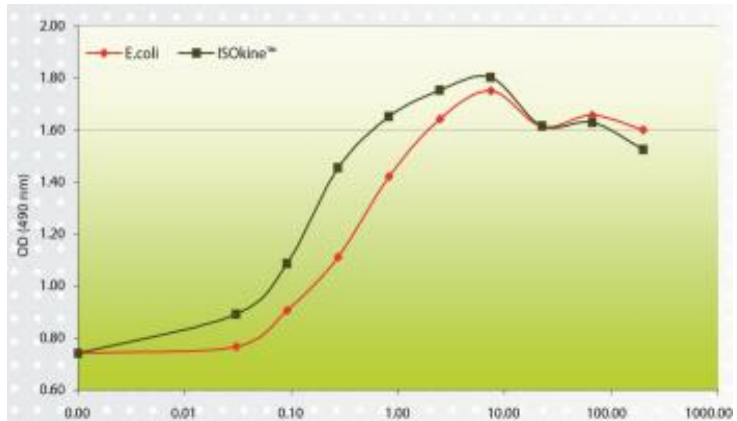
**Reconstitution:** Always centrifuge the vial before opening. It is recommended to reconstitute the lyophilized protein in sterile water to a concentration of no less than 100 µg/ml. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Storage:** 12 months from date of receipt, -20 to 70°C as supplied.  
1 month, 2 to 8 °C under sterile conditions after reconstitution.  
3 months, - 20 to 70 °C under sterile conditions after reconstitution.  
**Avoid multiple freeze-thaw cycles.**

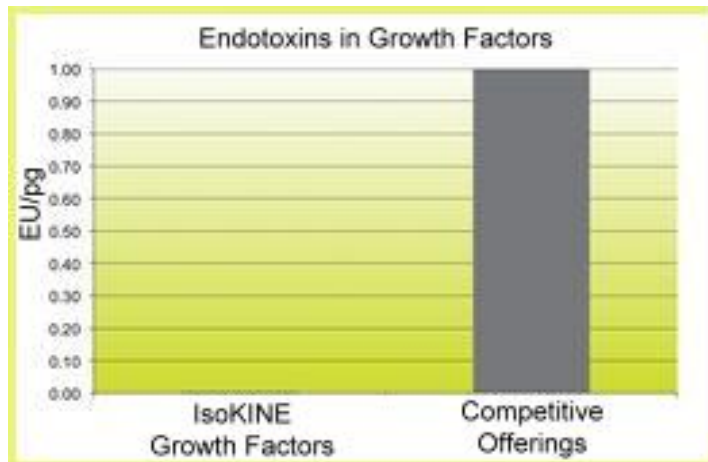
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**Graph:** Flt3-Ligand IsoKINE™ Tested for bioactivity vs leading E. Coli derived growth factor



**Graph:** Plant cell system: The barley plant does not contain any pathogens or other components known to be harmful for human or animal stem cells. The plant components are safe and inert. Bioassay analysis and years of successful application in stem cell research verify this further.



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