



ISOKine[™] Recombinant Mouse LIF

Datasheet

Catalog Number: PR80000 Product Type: Recombinant Protein

Source: ISOkine™ recombinant mouse LIF 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: total le

Recombinant mouse LIF contains 188 amino acids and a 16 a.a. Histidine-based tag for a total length of 204 a.a. and has a predicted molecular mass of 22.8 kDa. As a result of glycosylation, the recombinant protein migrates with an apparent molecular mass of 28-30

kDa in SDS-PAGE.

Activity: Each batch is tested for bioactivity and verified to have comparable activity to a commercial

source. The bioactivity of ISOkineTM murine LIF was determined by its ability to induce differentiation of murine M1 myeloid leukemia cells. The ED_{50} value for this effect is typically 1 ng/ml, corresponding to a specific activity of > 5 x $10e^7$ U/mg (where 50 U is defined as the amount of mLIF required to induce differentiation of 50% of M1 cells). The activity is comparable to mLIF from other commercial sources. We recommend that the optimal concentration for each specific application be determined by an initial dose-response assay.

Endotoxin Level: Endotoxin 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-€ 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

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.

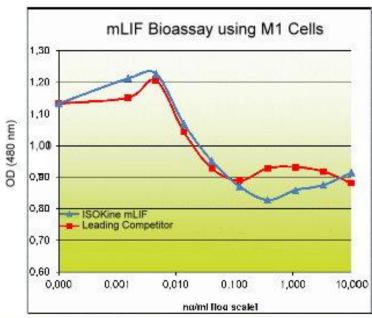
3 months, -20 to 70 °C under sterile conditions after reconstitution.

Avoid multiple freeze-thaw cycles.

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Image: ISOKine[™] vs. leading competitor.



Images: ES Cells with LIF, embryoid bodies and ES Cells without LIF.



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