

## LIF Protein, Human, Recombinant V2

### General Information

|                       |  |
|-----------------------|--|
| Synonyms:             | DIA;HILDA;CDF;MLPLI;Leukemia Inhibitory Factor         |
| Protein Construction: | Ser23-Phe202   |
| Species:              | Human  |
| Expression Host:      | HEK293 Cells   |
| Accession:            | P15018-1   |
| Molecular Weight:     | 19.7 kDa (Predicted); 40-55 kDa (Due to glycosylation) |

### QC Testing

|                      |  |
|----------------------|--|
| Biological Activity: | Immobilized Human LIF at 2 µg/ml (100 µl/Well) on the plate. Dose response curve for Human LIF R, hFc Tag with the EC50 of 55.9 ng/ml determined by ELISA. |
| Purity:              | > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC  |
| Endotoxin:           | < 1.0 EU/µg of the protein as determined by the LAL method.  |
| Formulation:         | Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.                            |

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Leukemia inhibitory factor (LIF) has played a vital role in a series of reproductive events, including follicle growth, embryo growth and differentiation. However, it is unclear whether the level of LIF in embryo culture medium can be used as a marker for clinical pregnancy.

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