Human LIF Protein

Cat. No. LIF-HM001

Description

Source	Recombinant Human LIF Protein is expressed from HEK293 without tag.
	It contains Ser23-Phe202.
Accession	P15018-1
Molecular Weight	The protein has a predicted MW of 19.7 kDa. Due to glycosylation, the protein migrates to 40-55 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

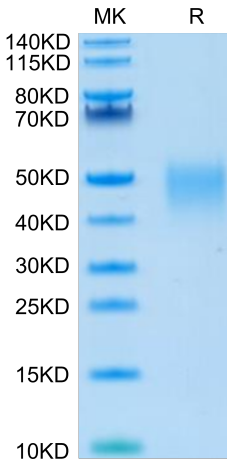
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

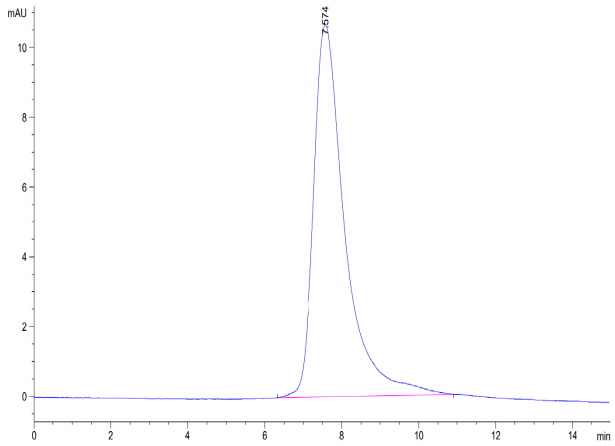
Assay Data

Bis-Tris PAGE



Human LIF on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human LIF is greater than 95% as determined by SEC-HPLC.

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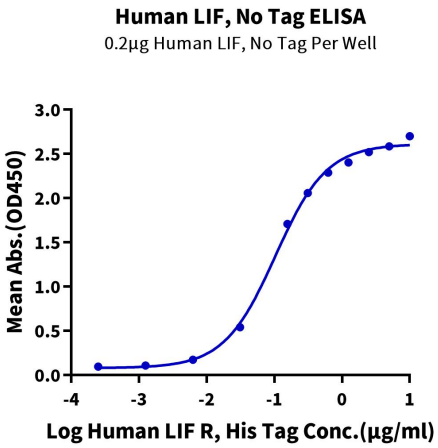
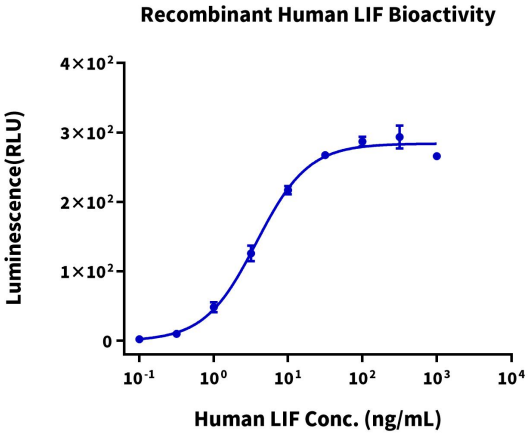
Assay Data

ELISA Data



Immobilized Human LIF at 2μg/ml (100μl/Well) on the plate. Dose response curve for Human LIF R, hFc Tag with the EC50 of 0.10μg/ml determined by ELISA (QC Test).

Cell Based Assay



Determined by its dose-dependent ability to induce reporter gene in 293T-STAT3-Luc2 reporter cells. The ED50 for this effect is 0.2-2 ng/mL.