

Human LIF R/CD118 Protein

Cat. No. LIF-HM10R



Description

Source	Recombinant Human LIF R/CD118 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Gln45-Ser833.
Accession	P42702-1
Molecular Weight	The protein has a predicted MW of 90.5 kDa. Due to glycosylation, the protein migrates to 115-130 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

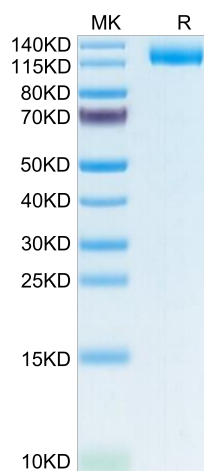
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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

The leukemia inhibitory factor receptor (LIF-R) subunit is a component of cell-surface receptor complexes for the multifunctional cytokines, LIF, cardiotrophin-1, ciliary neurotrophic factor, and human oncostatin M. The structure of the human LIF-R gene is similar to that of the mouse gene. The transmembrane receptor is encoded by 19 exons.

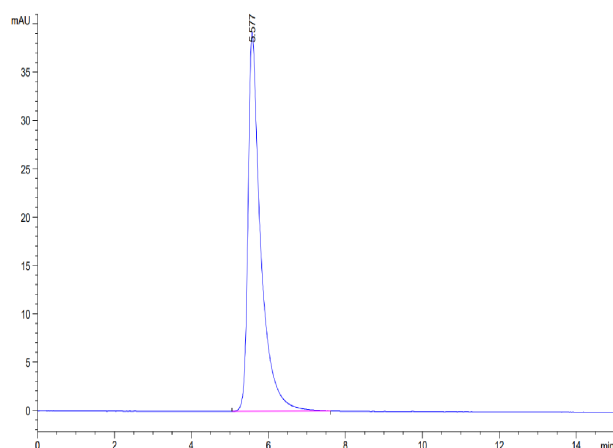
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



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

Human LIF R/CD118 Protein

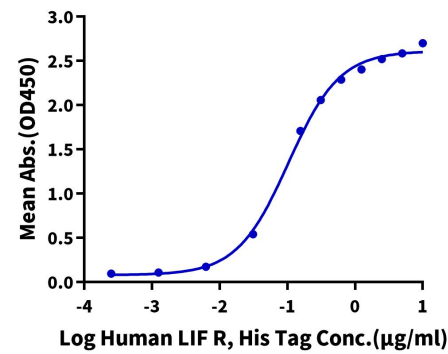
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Assay Data

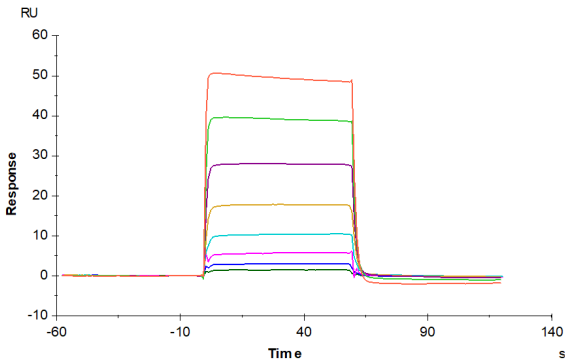
ELISA Data

Human LIF R, hFc Tag ELISA
0.2µg Human LIF, No Tag Per Well



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.

SPR Data



Human LIF R, His Tag immobilized on CM5 Chip can bind Human Oncostatin M, His Tag with an affinity constant of 0.662 µM as determined in SPR assay (Biacore T200).