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 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

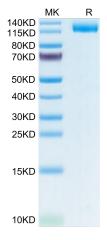
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Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°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.

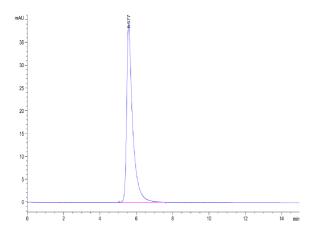
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



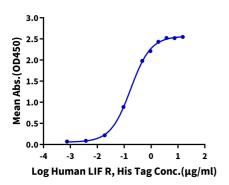
The purity of Human LIF R is greater than 95% as determined by SEC-HPLC.

KAGTUS

Assay Data

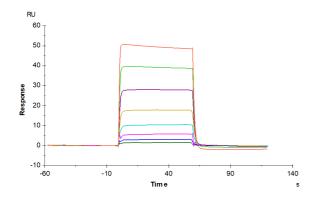
ELISA Data

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



Immobilized Human LIF at $2\mu g/ml$ ($100\mu l/Well$) on the plate. Dose response curve for Human LIF R, His Tag with the EC50 of $0.17\mu g/ml$ determined by ELISA (QC Test).

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 μ M as determined in SPR assay (Biacore T200).