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# LIFR Protein (AA 45-833) (His tag)





#### Overview

Quantity:	100 μg
Target:	LIFR
Protein Characteristics:	AA 45-833
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LIFR protein is labelled with His tag.

#### **Product Details**

Purpose:	Human LIF R/CD118 Protein
Sequence:	Gln45-Ser833
Characteristics:	Recombinant Human LIF R/CD118 Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Gln45-Ser833.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human LIF at 2µg/ml (100µl/Well) on the plate. Dose response curve for Human
	LIF R, His Tag with the EC50 of 0.75µg/ml determined by ELISA. The affinity constant of 0.662
	μM as determined in SPR assay (Biacore T200). See testing image for detail.

### **Target Details**

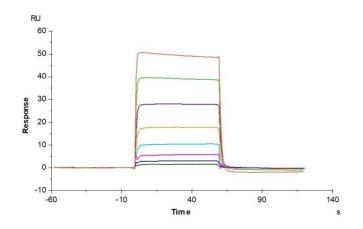
Target:	LIFR
Alternative Name:	LIF R (LIFR Products)
Background:	The leukemia inhibitory factor receptor (LIF-R) subunit is a component of cell-surface receptor complexes for the multifunctional cytokines, LIF, cardiotrophin-1, ciliary neurotrophic factor, and human oncostatin M. The structure of the human LIF-R gene is similar to that of the mouse gene. The transmembrane receptor is encoded by 19 exons.
Molecular Weight:	90.5 kDa. Due to glycosylation, the protein migrates to 115-130 kDa based on Tris-Bis PAGE result.
Pathways:	JAK-STAT Signaling, Growth Factor Binding

## **Application Details**

Restrictions: For Research Use only

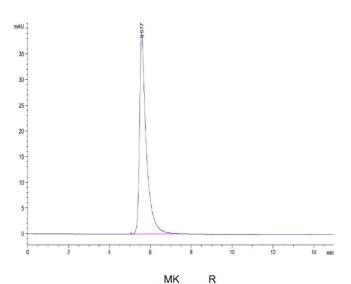
# Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu$ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from $0.22\mu m$ filtered solution in PBS ( pH $7.4$ ). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



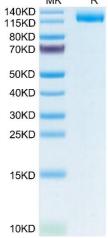
#### **Surface Plasmon Resonance**

**Image 1.** Human LIF R, His Tag immobilized on CM5 Chip can bind Human Oncostatin M, His Tag with an affinity constant of 0.662  $\mu$ M as determined in SPR assay (Biacore T200).



# Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 2.** The purity of Human LIF R/CD118 is greater than 95 % as determined by SEC-HPLC.



#### **SDS-PAGE**

Image 3. Human LIF R/CD118 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Please check the product details page for more images. Overall 4 images are available for ABIN7275152.