

LIFR

Recombinant Human LIF Receptor / CD118 (His Tag)

Catalog No.	CRH528A-His CRH528B-His	Quantity:	50 µg 100 µg
Alternate Names:	Leukemia inhibitory factor receptor, LIF receptor, LIF-R, CD118		
Description:	Leukemia inhibitory factor receptor (LIF-R) belongs to the family of cytokine receptors. LIF-R forms a high-affinity receptor complex with gp13, which mediates the activity of LIF (leukemia inhibitory factor) and thus affects the differentiation, proliferation, and survival of a wide variety of cells in the adult and the embryo. Besides LIF, LIF-R can also bind to and activate CNTF (ciliary neurotrophic factor) and CLC (cardiotrophin like cytokine). Evidence showed that in the retina, LIF-R activating LIF, CT-1 and cardiotrophin like cytokine (CLC) are strongly upregulated in response to preconditioning with bright cyclic light leading to robust activation of signal transducer and activator of transcription-3 (STAT3) in a time-dependent manner. Further, blocking LIF-R activation during preconditioning using a LIF-R antagonist (LIF5) attenuated the induced STAT3 activation and also resulted in reduced preconditioning-induced protection of the retinal photoreceptors. These data demonstrate that LIF-R and its ligands play an essential role in endogenous neuroprotective mechanisms triggered by preconditioning-induced stress. LIF-R was newly found to be a suppressor of hepatocellular carcinoma (HCC), one of the world's top five causes of cancer-related deaths.		
UniProt ID:	P42702		
Accession Number:	NP_001121143.1		
Protein Construction:	A DNA sequence encoding the extracellular domain of human LIFR (Met 1-Ser 833) with a C-terminal polyhistidine tag was expressed.		
Source:	HEK293 Cells		
Formulation:	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Molecular Weight:	The secreted recombinant human LIFR comprises 800 amino acids with a predicted molecular mass of 91 kDa. As a result of glycosylation, rhLIFR migrates as an approximately 125-135 kDa band in SDS-PAGE under reducing conditions.		
Purity:	> 90 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg protein as determined by the LAL method.		
Biological Activity:	Measured by its ability to bind human LIF-Fc in a functional ELISA.		
Predicted N-terminal:	Gln 45		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		



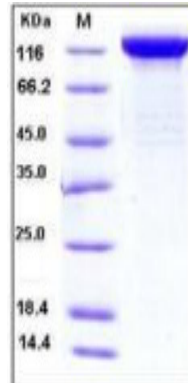
Storage & Stability:

Stable for up to 1 year from date of receipt at -20°C to -80°C

After reconstitution, store working aliquots at -20°C to -80°C.

Avoid repeated freeze-thaw cycles.

SDS-PAGE



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