

## LIFR

### Recombinant Human LIF Receptor / CD118 (Fc Tag)

<b>Catalog No.</b>	CRH528A-Fc CRH528B-Fc	<b>Quantity:</b>	50 µg 100 µg
<b>Alternate Names:</b>	Leukemia inhibitory factor receptor, LIF receptor, LIF-R, CD118		
<b>Description:</b>	<p>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.</p>		
<b>UniProt ID:</b>	P42702		
<b>Accession Number:</b>	NP_002301.1		
<b>Protein Construction:</b>	A DNA sequence encoding the human LIFR (Met1-Ser833) was expressed with the Fc region of human IgG1 at the C-terminus.		
<b>Source:</b>	HEK293 Cells		
<b>Formulation:</b>	<p>Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.</p>		
<b>Molecular Weight:</b>	The recombinant human LIFR consists of 1027 amino acids and predicts a molecular mass of 116.1 kDa.		
<b>Purity:</b>	> 95 % as determined by SDS-PAGE.		
<b>Endotoxin Level:</b>	< 1.0 EU per µg protein as determined by the LAL method.		
<b>Biological Activity:</b>	Testing in progress		
<b>Predicted N-terminal:</b>	Gln 45		
<b>Reconstitution:</b>	<p><b>Centrifuge vial prior to opening.</b> 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. <b>DO NOT VORTEX.</b> Allow several minutes for complete reconstitution.</p>		
<b>Storage &amp; Stability:</b>	<p>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. <b>Avoid repeated freeze-thaw cycles.</b></p>		



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**Cell Sciences**®  
65 Parker Street  
Unit 11  
Newburyport, MA 01950

Toll Free: 888-769-1246  
Phone: 978-572-1070  
Fax: 978-992-0298

E-mail: [info@cellsciences.com](mailto:info@cellsciences.com)  
Website: [www.cellsciences.com](http://www.cellsciences.com)