

LIFR active protein

LIFR Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257904

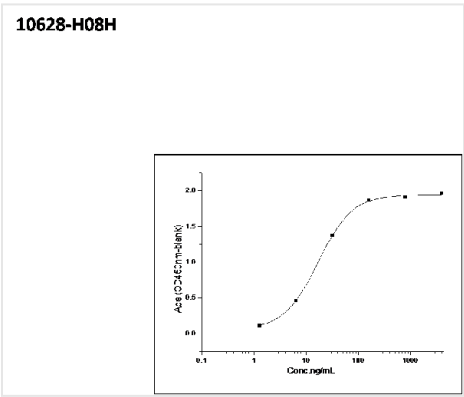
HOST
HEK293 Cells

PRODUCT SYNONYMS

LIFR; LIFR Protein; Human; Recombinant (His Tag); Human LIFR/CD118 Protein (His Tag); CD118 Protein; LIF-R Protein; SJS2 Protein; STWS Protein; SWS Protein; leukemia inhibitory factor receptor alpha; LIFR active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>90% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Ser833
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Gln 45
Tag	C-His
Protein Construction	A DNA sequence encoding the extracellular domain of human LIFR (NP_001121143.1)(Met 1-Ser 833) with a C-terminal polyhistidine tag was expressed.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	Measured by its ability to bind human LIF-Fc in a functional ELISA.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



Application Data
Measured by its ability to bind human LIF-Fc in a functional ELISA.

ADDITIONAL INFORMATION

Related Product Information for LIFR active protein	Background: LIFR (leukemia inhibitory factor receptor) belongs to the family of cytokine receptors. LIFR forms a high-affinity receptor complex with gp130, 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, LIFR can also bind to and activate CNTF (ciliary neurotrophic factor) and CLC (Cardiotrophin Like Cytokine). Evidence showed that in the retina, LIFR 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 LIFR activation during preconditioning using a LIFR antagonist (LIF05) attenuated the induced STAT3 activation and also resulted in reduced preconditioning-induced protection of the retinal photoreceptors. These data demonstrate that LIFR and its ligands play an essential role in endogenous neuroprotective mechanisms triggered by preconditioning-induced stress. LIFR was newly found to be a suppressor of hepatocellular carcinoma (HCC), one of the world's top five causes of cancer-related deaths.
References	Gearing, D.P. et al.,1991, EMBO J. 10 (10): 2839-2848. Gearing, D.P. et al.,1992, New Biol. 4 (1): 61-65. Mosley, B. et al.,1996, J. Biol. Chem. 271 (51): 32635-32643. Timmermann, A. et al.,2002, Eur. J. Biochem. 269 (11): 2716-2726. Lass, A. et al.,2002, Fertil. Steril. 76 (6): 1091-1096.

NCBI AND UNIPROT INFORMATION

NCBI GI #	189083786
NCBI GeneID	3977
NCBI Accession #	NP_001121143.1
NCBI GenBank Nucleotide #	NM_001127671.1
UniProt Accession #	P42702; Q6LCD9
Molecular Weight	123,743 Da
NCBI Official Full Name	leukemia inhibitory factor receptor
NCBI Official Synonym Full Names	leukemia inhibitory factor receptor alpha
NCBI Official Symbol	LIFR
NCBI Official Synonym Symbols	SWS; SJS2; STWS; CD118; LIF-R
NCBI Protein Information	leukemia inhibitory factor receptor; LIF receptor; CD118 antigen
UniProt Protein Name	Leukemia inhibitory factor receptor
UniProt Gene Name	LIFR

UniProt Synonym Gene Names	LIF receptor; LIF-R
UniProt Entry Name	LIFR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/lifr/257904>