

Recombinant Human LIFR Protein, C-His-tagged

Cat. No. LIFR-094H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LIFR Protein with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	IL-6 activates intracellular signaling through binding a receptor consisting of an ligand-binding protein (IL-6R) and a second protein. IL-6 first binds to IL-6R which subsequently associates with a gp130 dimer. The active signaling complex consists of at minimum IL-6, IL-6R and a dimer of two gp130 proteins that are linked by a disulfide bond. A soluble form of IL-6R is generated by proteolytic cleavage of the membrane-bound precursor and can function as an agonistic molecule that can actively participate in cell-to-cell signaling. The second subunit of the IL-6 complex, gp130, also functions as a component of several additional receptor complexes including leukemia inhibitory factor (LIF), oncostatin M (OSM), ciliary neurotrophic factor (CNTF) and IL-11. LIF binds to the LIF receptor (LIFR) with low affinity and to a complex of the LIF receptor and gp130 with high affinity while OSM appears to bind to gp130 with low affinity and to a complex of gp130 and the LIF receptor with high affinity.
Molecular Mass	~87 kDa
AA Sequence	QKKGAPHDLKCVTNNLQVWNC SWKAPSGTGRGTDYEVCIENRSRSCYQLEKTSIKI PALSHGDYEITINSLHDFGSSTSKFTLNEQNVSLIPDTPEILNLSADFSTSTLYLKWND

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RGSVFPHRSNVIWEIKVLRKESMELVKLVTHNTTLNGKDTLHHWSWASDMPLECAI
 HFVEIRCYIDNLHFSGLEEWSDWSPVKNISWIPDSQTKVFPQDKVILVGSDITFCCVS
 QEKVLSALIGHTNCPLIHLGGENVAIKIRNISVSASSGTNVVFTTEDNIFGTVIFAGYPP
 DTPQQLNCETHDLKEIICSWNPGRVTALVGPRATSITLVESFSGKYVRLKRAEAPT
 ESQQLLFQMLPNQEIYNFTLNAHNPLGRSQSTILVNITEKVYPHTPTSFVKVDINSTAV
 KLSWHLPGNFAKINFLCEIEIKKSNSVQEQRNVTIKGVENSSYLVALDKLNPTLYTFR
 IRCSTETFWKWSKWSNKKQHLTTEASPSKGPDTWREWSSDGKNLIYWKLPLINEA
 NGKILSYNVSCSSDEETQSLSEIPDPQHKAEIRLDKNDYIISVAKNSVGSSPPSKIAS
 MEIPNDLKEIQVVGGMKGILLTWHYDPNMTCDYVIKWCNSSRSEPCLMDWRKVPS
 NSTETVIESDEFRPGIRYNFFLYGCRNQGYQLLRSMIGYIEELAPIVAPNFTVEDTSAD
 SILVKWEDIPVEELRGFLRGYLFYFGKGERDTSKMRVLESGRSDIKVKNITDISQKTL
 RIADLQGKTSYHLVLRAYTDGGVGPEKSMYVVTKENS

Purity

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

Notes

For research use only, not for use in diagnostic procedure.

Storage

Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

Concentration

≥0.5 mg/mL

Storage Buffer

PBS, 4M Urea, pH7.4

GENE INFORMATION
Gene Name

LIFR leukemia inhibitory factor receptor alpha [Homo sapiens (human)]

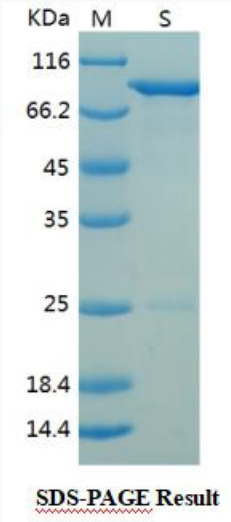
Official Symbol

LIFR

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Synonyms	LIFR; leukemia inhibitory factor receptor alpha; leukemia inhibitory factor receptor; CD118; LIF receptor; CD118 antigen; SWS; SJS2; STWS; LIF-R; FLJ98106; FLJ99923;
Gene ID	3977
mRNA Refseq	NM_001127671
Protein Refseq	NP_001121143
MIM	151443
UniProt ID	P42702
SDS-PAGE	 SDS-PAGE Result