

Active Recombinant Human LIFR Protein, Fc-tagged

Cat. No. LIFR-044H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human Leukemia inhibitory factor receptor Fc Chimera (rhLIFR-Fc) contain NP_001121143 over Met 1 - Ser 833 positions, which was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	1-833 a.a.
Description	<p>This gene encodes a protein that belongs to the type I cytokine receptor family. This protein combines with a high-affinity converter subunit, gp130, to form a receptor complex that mediates the action of the leukemia inhibitory factor, a polyfunctional cytokine that is involved in cellular differentiation, proliferation and survival in the adult and the embryo. Mutations in this gene cause Schwartz-Jampel syndrome type 2, a disease belonging to the group of the bent-bone dysplasias. A translocation that involves the promoter of this gene, t(5;8)(p13;q12) with the pleiomorphic adenoma gene 1, is associated with salivary gland pleiomorphic adenoma, a common type of benign epithelial tumor of the salivary gland. Multiple splice variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]</p>
Bio-activity	Measured by its ability to inhibit LIF dependent proliferation of TF1 human erythroleukemic cells. The ED50 for this effect is typically 3-10 g/mL in the presence of 4 ng/mL of recombinant human LIF.

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Molecular Mass	rhLIFR-Fc was fused with the Fc region of human IgG1 at the C-terminus, The reduced monomer has a calculated molecular mass of 115.5 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rhLIFR-Fc monomer is approximately 135-150 kDa due to the glycosylation.
Endotoxin	Less than 0.01 ng endotoxin/ 1 g rhLIFR-Fc.
Purity	>96% purity as determined by SDS-PAGE of reduced rhLIFR-Fc.
Notes	Research Use Only. Not for use in diagnostic or therapeutic procedures.
Storage	Store at -20 centigrade in lyophilized state after receipt. For long term storage, upon reconstitution rhLIFR-Fc should be aliquot and store at -20 centigrade or -8 centigrade centigrade. Avoid repeated freeze-thaw cycles.
Storage Buffer	Bulk protein in a 0.22 μ filtered solution of PBS, pH 7.4 and delivered as liquid formulation or lyophilized powder. Normally 2-8% trehalose and mannitol are added as protectants before lyophilization.

GENE INFORMATION

Gene Name	LIFR leukemia inhibitory factor receptor alpha [Homo sapiens]
Official Symbol	LIFR
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

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mRNA Refseq	NM_001127671
Protein Refseq	NP_001121143
MIM	151443
UniProt ID	P42702

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