

Active Recombinant Mouse Lifr Protein, His-tagged

Cat. No. Lifr-021M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse LIFR alpha, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Insect cells
Description	Signal-transducing molecule. May have a common pathway with IL6ST. The soluble form inhibits the biological activity of LIF by blocking its binding to receptors on target cells.
Form	Liquid
Bio-activity	Measured by its ability to inhibit proliferation using TF-1 human erythroleukemic cells. The ED50 range $\leq 1\mu\text{g/mL}$ with Mouse LIF.
Molecular Mass	89.6 kDa
AA Sequence	LKRGVQDLKCTTNNMRVWDCTWPAPLGVSPGTVKDICKDRFHSCHPLETTNVKIP ALSPGDHEVTINYLNQFQSKFTLNEKDVSLIPETPEILDLSADFFTSLLLKWNDGRS ALPHPSNATWEIKVLQNPRTPEVALVLLNTMLSGKDTVQHWNTSDPLQCATHSV SIRWHIDSPHFSGYKEWSDWSPLKNISWIRNTETNVFPQDKVVLGNSMTICCMSPT KVLSGQIGNTLRPLIHLYGQTVAIHILNIPVSENSGTNIIFITDDDVGTVVFAGYPPDV PQKLSCEHDLKEIICSWNPGRITGLVGPRNTEYTLFESISGKSAVFHRIEGLTNETYR LGVQMHPGQEIHNFTLTGRNPLGQAQSAVVINVERTERVAPHDPTSLKVKDINSTVVTF

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SWYLPGNFTKINLLCQIEICKANSKKEVRNATIRGAEDSTYHVAVDKLNPTYTAYTFRV
 RCSSKTFWKWSRWSDEKRHLTTEATPSKGPDTWREWSSDGKNLIVYWKPLPINEA
 NGKILSYNVSCSLNEETQSVLEIFDPQHRAEIQLSKNDYIISVVARNSAGSSPPSKIAS
 MEIPNDDITVEQAVGLGNRIFLTWRHDPNMTCDYVIKWCNSSRSEPCLLDWRKVP
 NSTETVIESDQFQPGVRYNFYLYGCTNQGYQLLSIIGYVEELAPIVAPNFTVEDTSA
 DSILVKWDDIPVEELRGFLRGYLFYFQKGERDTPKTRSLEPHHSDIKLKNITDISQKTL
 RIADLQGKTSYHLVLRAYTHGGLGPEKSMFVVTKENS

Endotoxin < 1 EU/μg of protein (determined by LAL method)

Purity > 90% by SDS-PAGE

Applications SDS-PAGE, Bioactivity

Storage Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -100 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/mL (determined by Absorbance at 280nm)

Storage Buffer Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name [Lifr LIF receptor alpha \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Lifr](#)

Synonyms Lifr; LIF receptor alpha; LIF; AW061234; A230075M04Rik; leukemia inhibitory factor receptor; D-factor/LIF receptor; LIF-R; leukemia inhibitory factor receptor alpha chain; soluble differentiation-stimulating factor receptor

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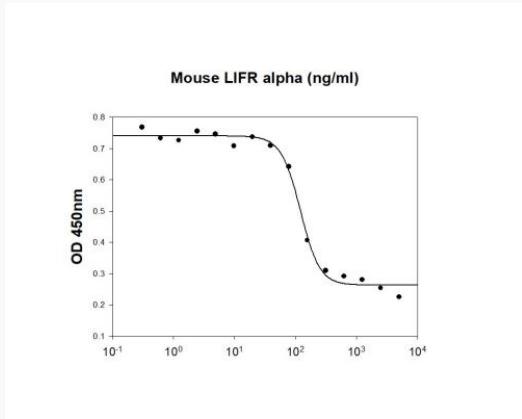
Gene ID	16880
mRNA Refseq	NM_013584
Protein Refseq	NP_038612
UniProt ID	P42703

SDS-PAGE



3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain

Biological Activity



Mouse LIFR alpha (ng/ml)	OD 450nm
10 ⁻¹	0.75
10 ⁰	0.72
10 ¹	0.70
10 ²	0.40
10 ³	0.25
10 ⁴	0.20

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Mouse LIFR alpha inhibits human LIF induced cell proliferation in the TF-1 human erythroleukemic cells. The ED50 range is $\leq 1 \mu\text{g/mL}$.

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