

Active Recombinant Rat LIFR protein, His-tagged

Cat. No. LIFR-3408R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat LIFR protein(G3V7K2)(Met1-Ser829), fused with His tag, was expressed in HEK293.
Species	Rat
Source	HEK293
ProteinLength	Met1-Ser829
Form	Lyophilized from sterile PBS, pH 7.4Please contact us for any concerns or special requirements. 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.
Bio-activity	1.Measured by its binding ability in a functional ELISA. Immobilized Mouse LIF hFc at 2 µg/ml (100 µl/well) can bind Rat LIFR His, the EC50 of Rat LIFR His is 300-700 ng/mL.2. Measured by its ability to inhibit the recombinant human LIF mediated inhibition in the M1 mouse myeloid leukemia cells. The ED50 for this effect is typically 8-40 ng/mL in the presence of 2 ng/mL recombinant human LIF.
Molecular Mass	The recombinant rat LIFR comprises 797 amino acids and predicts a molecular mass of 90 kDa. The apparent molecular mass of the recombinant protein is approximately 116 kDa in SDS-PAGE under reducing conditions due to glycosylation.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method

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Purity	> 95 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Lifr leukemia inhibitory factor receptor alpha [Rattus norvegicus]
Official Symbol	LIFR
Synonyms	LIFR; leukemia inhibitory factor receptor alpha; leukemia inhibitory factor receptor; LIF-R; LIF receptor; leukemia inhibitor factor receptor alpha-chain;
Gene ID	81680
mRNA Refseq	NM_031048
Protein Refseq	NP_112310

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