

For Research Use Only

# Recombinant Human LIF protein (Myc Tag, His Tag)



Catalog Number: Eg0111

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: Myc Tag, His Tag
Technical Specifications	<p><b>Purity:</b> &gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b> &lt;1.0 EU/ µg protein, LAL method</p> <p><b>Source:</b> HEK293-derived Human LIF protein Ser23-Phe202 (Accession# P15018) with a Myc tag and a His tag at the C-terminus.</p> <p><b>GeneID:</b> 3976</p> <p><b>Accession:</b> P15018</p> <p><b>Predicted Molecular Mass:</b> 25.3 kDa</p> <p><b>SDS-PAGE:</b></p> <p><b>Formulation:</b> Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p><b>Storage:</b> It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"><li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li><li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li></ul> <p><b>Shipping:</b> The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>LIF is a pleiotropic cytokine with roles in several different systems. It is involved in the induction of hematopoietic differentiation in normal and myeloid leukemia cells, induction of neuronal cell differentiation, regulator of mesenchymal to epithelial conversion during kidney development, and may also have a role in immune tolerance at the maternal-fetal interface. LIF is a glycoprotein containing six putative N-glycosylation sites. The molecular weight of the unglycosylated LIF protein is 20-25 kDa, while the molecular weight of the glycosylated protein is in the range of 37-63 kDa.</p>		
References	<ol style="list-style-type: none"><li>1. Viswanadhapalli, Suryavathi et al. Genes &amp; diseases vol. 9,4 973-980. 29 Apr.</li><li>2. Nicola, Nicos A, and Jeffrey J Babon. Cytokine &amp; growth factor reviews vol. 26,5 (2015): 533-44.</li><li>3. Hilton, D J. Trends in biochemical sciences vol. 17,2 (1992): 72-6.</li><li>4. Fan, L et al. Journal of dental research vol. 101,1 (2022): 63-72.</li></ol>		
Synonyms	Leukemia inhibitory factor, Differentiation-stimulating factor, Melanoma-derived LPL inhibitor		

## Selected Validation Data

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For technical support and original validation data for this product please contact

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