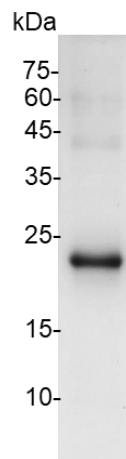


<b>Catalog number</b>	C02059-5UG / C02059-20UG / C02059-100UG
<b>Package</b>	5 µg / 20 µg / 100 µg
<b>Description</b>	LIF, a pleiotrophic factor, is identified in multiple cell types, including T cells, myelomonocytic lineages, fibroblasts, liver, heart and melanoma. LIF is capable of promoting long-term maintenance of embryonic stem cells by inhibiting spontaneous differentiation. In addition, LIF also have abilities including stimulation of differentiation of cholinergic nerves, the stimulation of acute phase protein synthesis by hepatocytes, and suppression of adipogenesis by supressing the lipoprotein lipase in adipocytes.
<b>Source</b>	<i>Escherichia coli</i>
<b>Sequence</b>	SPLPITPVNATCAIRHPCHGNLMNQIKNQLAQLNGSANALFISYYTAQGEPFPN NVEKLCAPNMDFPSFHGNGTEKTKLVELYRMVAYLSASLTNITRDQKVLNPTA VSLQVKLNATIDVMRGLLSNVLCRLCNKYRVGHVDVPPVPDHSKDKEAFQRKKL GCQLLGTYKQVISVVVQAF with polyhistidine tag at the N-terminus
<b>Endotoxin level</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Activity</b>	Measure by its ability to induce IL-6 secretion in M1 cells. The ED <sub>50</sub> for this effect is <0.5 ng/mL. The specific activity of recombinant mouse LIF is > 2 x 10 <sup>6</sup> IU/mg.
<b>Purity</b>	>95% as determined by SDS-PAGE.
<b>Form</b>	Lyophilized
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
<b>Stability &amp; Storage</b>	This product is stable after storage at: <ul style="list-style-type: none"> <li>• -20°C for 12 months in lyophilized state from date of receipt.</li> <li>• -20°C or -80°C for 1 month under sterile conditions after reconstitution.</li> </ul> Avoid repeated freeze/thaw cycles.



SDS-PAGE analysis of recombinant mouse LIF

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