

## Product datasheet for **TP720015L**

### LIF (NM\_002309) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human leukemia inhibitory factor (cholinergic differentiation factor) (LIF)
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Ser23-Phe202
Tag:	Tag Free
Predicted MW:	19.8 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl
Bioactivity:	ED50 is less than 0.01 ng/ml as determined by the M1 cell differentiation assay. Specific Activity of 1.0 x 10 <sup>8</sup> IU/mg.
Endotoxin:	< 0.1 EU per µg protein as determined by LAL test
Reconstitution Method:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilized protein in ddH <sub>2</sub> O. It is not recommended to reconstitute a concentration less than 100 µg/ml. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	<a href="#">NP_002300</a>
Locus ID:	3976
UniProt ID:	<a href="#">P15018</a>
Cytogenetics:	22q12.2
Synonyms:	CDF; DIA; HILDA; MLPLI



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**Summary:**

The protein encoded by this gene 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. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Mar 2012]

**Protein Families:**

Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein

**Protein Pathways:**

Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway

**Product images:**