

Product datasheet for **TP723270**

LIF (NM_002309) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human leukemia inhibitory factor (cholinergic differentiation factor) (LIF).
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	SPLPITPVNA TCAIRHPCHN NLMNQIRSQL AQLNGSANAL FILYYTAQGE PFPNNLDKLC GPNVTDFPPF HANGTEKAKL VELYRIVWYL GTSLGNITRD QKILNPSALS LHSKLNATAD ILRGLLSNVL CRLCSKYHVG HVDVTYGPD T SGKDVFQKKK LGCQLLGKYK QIIAVLAQAF
Tag:	Tag Free
Predicted MW:	19.6 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bioactivity:	Determined by its ability to stimulate the proliferation of human TF-1 cells. The expected ED50 is less than or equal to 0.1 ng/ml, corresponding to a specific activity of > 1 x 10 ⁷ units/mg.
Endotoxin:	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_002300
Locus ID:	3976
UniProt ID:	P15018
RefSeq Size:	3987
Cytogenetics:	22q12.2
RefSeq ORF:	606
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: