

Bioactive

LIF (Human) Recombinant Protein

Catalog # P3646

Size 10 ug

Specification

Product Description	Human LIF (P15018, 23 a.a. - 202 a.a.) partial recombinant protein expressed in <i>Escherichia coli</i> .
Sequence	SPLPITPVNATCAIRHPCHNNLMNQIRSQLAQLNGSANALFILYYTAQGEPFPNNLDKLCGPNVTDF PPFHANGTEKAKLVELYRMVYLGTS LGNITRDQKILNPSALSLSKLNATADILRGLLSNVLCRLCS KYHVGHVDVTYGPDTSGKDV FQKKKLG CQLLGKYKQIIAVLAQAF
Host	<i>Escherichia coli</i>
Theoretical MW (kDa)	20
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Purification	Ion exchange column and HPLC reverse phase column
Purity	> 90% by SDS-PAGE and HPLC
Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	The ED ₅₀ was determined by the dose-dependent differentiation of M1 myeloid leukemic cells was found to be in the range of 0.01 ng/mL.
Storage Buffer	Lyophilized from PBS, pH 4.5
Storage Instruction	Store at -20°C on dry atmosphere for 2 years. After reconstitution with deionized water, store at 4°C for 1 month or store at -20°C for 6 months. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — LIF

Entrez GeneID	3976
Protein Accession#	P15018
Gene Name	LIF
Gene Alias	CDF, DIA, HILDA
Gene Description	leukemia inhibitory factor (cholinergic differentiation factor)
Omim ID	159540
Gene Ontology	Hyperlink
Gene 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. [provided by RefSeq]
Other Designations	D factor cholinergic differentiation factor differentiation inhibitory activity differentiation stimulating factor

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [Jak-STAT signaling pathway](#)

Disease

- [Abortion](#)
- [Arthritis](#)
- [Brain Ischemia](#)
- [Cardiovascular Diseases](#)
- [Cerebrovascular Accident](#)
- [Dementia](#)

- [Diabetes Mellitus](#)
- [Edema](#)
- [Endometriosis](#)
- [Genetic Predisposition to Disease](#)
- [Infertility](#)
- [Memory](#)
- [Mental Disorders](#)
- [Multiple Sclerosis](#)
- [Neuropsychological Tests](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Schizophrenia](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)