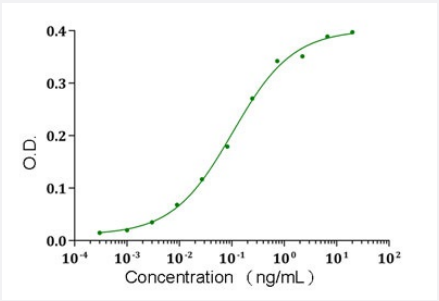
Bioactive

LIF (Human) Recombinant Protein

Catalog # P7142 Size 10 ug

Applications





Result of bioactivity analysis

Result of bioactivity analysis

Specification

Product Description	Human LIF (P15018, 23 a.a. - 202 a.a.) partial recombinant protein expressed in *Escherichia coli*.
Sequence	SPLPITPVNATCAIRHPCHNNLMNQIRSQLAQLNGSANALFILYYTAQGEPFPNNLDKLCGPNVTDF PPFHANGTEKAKLVELYRIVVYLGTSLGNITRDQKILNPSALSLHSKLNATADILRGLLSNVLCRLCS KYHVGHVDVTYGPDTSGKDVFQKKKLGCQLLGKYKQIIAVLAQAF
Host	Escherichia coli
Theoretical MW (kDa)	19.7
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system

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Purity	> 95% by SDS-PAGE
Endotoxin Level	< 0.2 EU per 1 ug of protein (determined by gel clotting method)
Activity	ED_{50} < 0.2 ng/ml, measured by a cell differentiation assay using TF-1 cells, corresponding to a specific activity of > 5.0 x 10^6 units/mg.
Quality Control Testing	2 ug protein in Reducing and Non-Reducing SDS PAGE Stained with Coomassie Blue
Storage Buffer	Lyophilized from sterile distilled Water up to 100 ug/ml
Storage Instruction	Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis Result of bioactivity analysis

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

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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

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- Puberty
- Schizophrenia
- Thrombophilia
- Tobacco Use Disorder

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