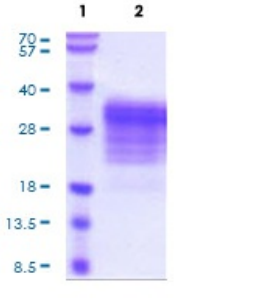
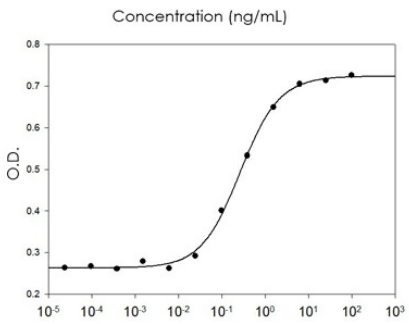
Bioactive

LIF (Human) Recombinant Protein

Catalog # P8008 Size 100 ug

Applications





Result of bioactivity analysis

Result of bioactivity analysis

Specification

Product Description	Human LIF (P15018, 23 a.a. - 202 a.a.) partial length recombinant protein with His tag expressed in Baculovirus expression system.
Sequence	AQLNGSANALFILYYTAQGEPFPNNLDKLCGPNVTDFPPFHANGTEKAKLVELYRIVVYLGTSLGNI TRDQKILNPSALSLHSKLNATADILRGLLSNVLCRLCSKYHVGHVDVTYGPDTSGKDVFQKKKLGC QLLGKYKQIIAVLAQAF
Host	Viruses
Theoretical MW (kDa)	20.8

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Form	Liquid
Preparation Method	Baculovirus expression system
Purity	> 90% by SDS-PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	ED_{50} is < 0.5 ng/mL, measured in a cell proliferation assay using TF-1 human erythroleukemic cell.
Quality Control Testing	3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.
Storage Buffer	In Phosphate-Buffer Saline pH 7.4 (10% glycerol)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and 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

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Gene Summary	The protein encoded by this gene is a pleiotropic cytokine with roles in several different systems. I t 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

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- Obesity
- Ovarian Failure
- Polycystic Ovary Syndrome
- Puberty
- Schizophrenia
- Thrombophilia
- Tobacco Use Disorder

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