

Bioactive

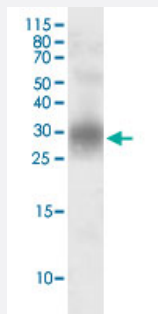
Full-Length

# LIF (Human) Recombinant Protein

Catalog # P5882

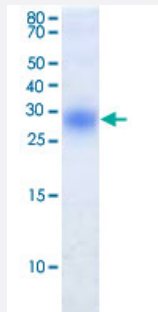
Size 100 ug, 50 ug, 10 ug

## Applications



### Western Blot (Recombinant protein)

Western blot analysis of LIF (Human) Recombinant Protein (Cat # P5882) using protein specific antibody.



### Result of activity analysis

Result of activity analysis

## Specification

### Product Description

Human LIF (196 a.a.) full-length recombinant protein with His tag expressed in Barley grain (*Hordeum vulgare*). This protein is endotoxins-free and thus optimal to use in stem cell cultures.

|                         |                                                                                                                       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Host                    | Plants                                                                                                                |
| Theoretical MW (kDa)    | 25-30                                                                                                                 |
| Reactivity              | Human                                                                                                                 |
| Form                    | Lyophilized                                                                                                           |
| Preparation Method      | <i>Hordeum vulgare</i> (barley) expression system                                                                     |
| Purification            | Chromatography                                                                                                        |
| Purity                  | > 95% by SDS-PAGE                                                                                                     |
| Endotoxin Level         | Endotoxin level is less than 0.005ng per ug (0.05EU/ug) as measured by turbidimetric kinetic assay.                   |
| Activity                | Activity has been measured by cell-based proliferation assay using TF-1 cells. ED <sub>50</sub> is 0.36 - 0.55 ng /mL |
| Quality Control Testing | SDS-PAGE Stained with Coomassie Blue                                                                                  |
| Storage Buffer          | Lyophilized from PBS, pH 7.2                                                                                          |
| Storage Instruction     | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                    |
| Note                    | Result of activity analysis<br>Result of activity analysis                                                            |

## Applications

- Western Blot (Recombinant protein)

Western blot analysis of LIF (Human) Recombinant Protein (Cat # P5882) using protein specific antibody.

- Functional Study
- SDS-PAGE

## Gene Info — LIF

|               |                      |
|---------------|----------------------|
| Entrez GeneID | <a href="#">3976</a> |
| Gene Name     | LIF                  |
| Gene Alias    | CDF, DIA, HILDA      |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Description   | leukemia inhibitory factor (cholinergic differentiation factor)                                                                                                                                                                                                                                                                                                                                                                        |
| Omim ID            | <a href="#">159540</a>                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                              |
| 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](#)