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Recombinant human LIF protein

Catalog Number: ATGP3533

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

23-202aa

UniProt No.

P15018

NCBI Accession No.

NP 002300

Alternative Names

Leukemia inhibitory factor isoform1, LIF, CDF, DIA, HILDA, MLPLI

PRODUCT SPECIFICATION

Molecular Weight

20.8 kDa (189aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Measured in a cell proliferation assay using TF-1 human erythroleukemic cell. The ED50 range ≤ 0.5 ng/ml.

Tag

His-Tag

Application

SDS-PAGE, Bioactivity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

LIF, as known as leukemia inhibitory factor, is a pleiotropic glycoprotein belonging to the LI6 family of cytokines.



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This protein is involved in growth promotion and cell differentiation of different types of target cells, influence on bone metabolism, embryogenesis and inflammation. It is produced by the adrenal cortex and likely enhances its production of cortisol and aldosterone. Also, it can function as an autocrine growth factor in some pancreatic cancers, but induced differentiation in the leukemic cell line M1. Recombinant human LIF, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

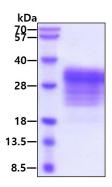
<ADP>SPLPITP VNATCAIRHP CHNNLMNQIR SQLAQLNGSA NALFILYYTA QGEPFPNNLD KLCGPNVTDF PPFHANGTEK AKLVELYRIV VYLGTSLGNI TRDQKILNPS ALSLHSKLNA TADILRGLLS NVLCRLCSKY HVGHVDVTYG PDTSGKDVFQ KKKLGCQLLG KYKQIIAVLA QAF

General References

Kuphal S., et al, (2013) Exp. Mol. Pathol. 95:156-165. Liu SC., et al, (2013) J. Clin. Invest. 123:5269-5283.

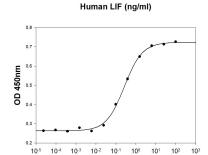
DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

Biological Activity



Human LIF stimulates cell proliferation of the TF-1 human erythroleukemic cells. The ED50 range ≤ 0.5 ng/ml.

