

Recombinant human LIF protein

Catalog Number: ATGP0756

PRODUCT INFORMATION

Expression system

E.coli

Domain

23-202aa

UniProt No.

P15018

NCBI Accession No.

NP_002300

Alternative Names

Leukemia inhibitory factor, CDF, HILDA, DIA, D FACTOR, MLPLI, Emfilermin

PRODUCT SPECIFICATION

Molecular Weight

47.2 kDa (415aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 50mM NaCl

Purity

> 90% by SDS-PAGE

Tag

His-GST-Tag

Application

SDS-PAGE

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

Leukemia inhibitory factor, also known as LIF, is a pleiotropic cytokine that is expressed by a wide variety of cells including activated T lymphocytes, monocytes, mast cells and neuronal cells. 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. Recombinant human LIF protein, fused to His GST-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

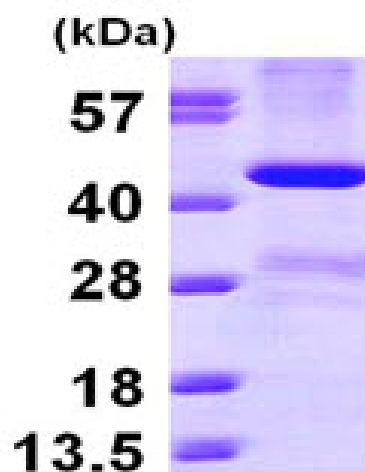
MHHHHHHMSP ILGYWKIKGL VQPTRLLEY LEEKYEEHLY ERDEGDKWRN KKFELGLEFP NLPYYIDGDV KLTQSMAIIR
YIADKHNMLG GCPKERAEIS MLEGAVLDIR YGVSRIAYSK DFETLKVDFL SKLPEMLKMF EDRLCHKTYL NGDHVTHPDF
MLYDALDVVL YMDPMCLDAF PKLVCFFKRI EAIPQIDKYL KSSKYIAWPL QGWQATFGGG DHPPKSDLVP RGSMSPLPI
TPVNATCAIR HPCHNNLMNQ IRSQLAQLNG SANALFILYY TAQGEFPNND LDKLCGPNVT DFPPFHANGT EKAKLVELYR
IVVYLGTSLG NITRDQKILN PSALSLSHKL NATADILRGL LSNVLCRLCS KYHVLGHVDVT YGPDTSGKDV FQKKKLG CQL
LGKYKQIIAV LAQAF

General References

Gillett N A., et al. (1993) Growth Factors. 9:301-305.
Stahl N., et al. (1994) J Neurobiol. 25:1454-1466.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)