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 Nterminus, was expressed in E. coli and purified by using conventional chromatography techniques.



Amino acid Sequence

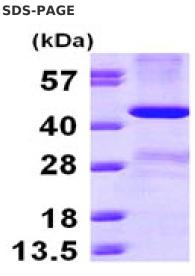
MHHHHHHMSP ILGYWKIKGL VQPTRLLLEY LEEKYEEHLY ERDEGDKWRN KKFELGLEFP NLPYYIDGDV KLTQSMAIIR YIADKHNMLG GCPKERAEIS MLEGAVLDIR YGVSRIAYSK DFETLKVDFL SKLPEMLKMF EDRLCHKTYL NGDHVTHPDF MLYDALDVVL YMDPMCLDAF PKLVCFKKRI EAIPQIDKYL KSSKYIAWPL QGWQATFGGG DHPPKSDLVP RGSHMSPLPI TPVNATCAIR HPCHNNLMNQ IRSQLAQLNG SANALFILYY TAQGEPFPNN LDKLCGPNVT DFPPFHANGT EKAKLVELYR IVVYLGTSLG NITRDQKILN PSALSLHSKL NATADILRGL LSNVLCRLCS KYHVGHVDVT YGPDTSGKDV FQKKKLGCQL LGKYKQIIAV LAQAF

coomassie blue stain.

General References

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

DATA



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by