



Leukemia Inhibitory Factor, His-GST tag, human recombinant (rHuLIF-His-GST)

Catalog No: 97532
Lot No: XXXXX
Source: *E. coli*
Synonyms: D factor, MLPLI, HILDA, Emfilermin, Leukemia Inhibitory factor, Differentiation-stimulating factor, Melanoma-derived LPL inhibitor

Background

Leukemia inhibitory factor, is a pleiotropic cytokine which is expressed by numerous cells including activated T lymphocytes, monocytes, mast cells and neuronal cells. LIF takes part 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 is a key player in immune tolerance at the maternal-fetal interface.

Description

Leukemia Inhibitory Factor (LIF) produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 415 amino acids (23-202) and having a molecular mass of 47.2 kDa. LIF is fused to a 236 amino acid His-GST tag at N-terminus and purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered clear solution.

Formulation

The LIF GST protein solution (1 mg/1 ml) is formulated in 20 mM Tris-HCl buffer (pH 8.0) 1 mM DTT, 50 mM NaCl and 20% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

Purity

Greater than 90% as determined by SDS-PAGE.

Amino Acid Sequence

MHHHHHHMSP ILGYWKIKGL VQPTRLLEY LEEKYEEHLY ERDEGDKWRN KKFELGLEFP NLPYYIDGDV KLTQSMAIIR
YIADKHNMLG GCPKERAELS MLEGAVLDIR YGVSRIAYSK DFETLKVDLF SKLPEMLKMF EDRLCHKTYL NGDHVTHPDF
MLYDALDVVL YMDPMCLDAF PKLVCFKKRI EAIPQIDKYL KSSKYIAWPL QGWQATFGGG DHPPKSDLVP RGSMSPLPI
TPVNATCAIR HPCHNNLMNQ IRSQLAQLNG SANALFILYY TAQGEFPFNN LDKLCGPNTV DFPPFHANGT EKAKLVELYR
IVVYLGTSLG NITRDQKILN PSALSLHSLK NATADILRGL LSNVLCRLCS KYHVGHVDTV YGPDTSGBKDV FQKKKLGCCQL
LGKYKQIIAV LAQAF

Usage

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