

LIF, 23-202aa, Human, His-GST tag, E.coli

Cat.NO.: TP02823

3th Edition

**Synonyms:**Leukemia inhibitory factor, CDF, HILDA, DIA, D FACTOR, MLPLI, Emfilermin

**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.

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

**Molecular Weight:**47.2 kDa (415aa) confirmed by MALDI-TOF

**Sequences:**

MHHHHHMHSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPYYIDGDVKLTQSM  
AIIRYIADKHNMLGGCPKERAEISMLEGAVLDIRYGVSR IAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDH  
VTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAI PQIDKYLKSSKYIAWPLQG WQATFGGGDHPPKSDLVP  
RGSHMSPLPITPVNATCAIRHPCHNNLMNQIRSQLAQLNGSANALFILYYTAQGEPFPNNLDKLCGPNVTDFFPFHA  
NGTEKAKLVELYRIVVYLG TSLGNITRDQKILNPSALSLH SKLNATADILRGLLSNVLCRLCSKYHVGHV DVTYGPDT  
SGKDVFQKKKLG CQLLGKYKQIIAVLAQAF

**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.