

32-6487: LIF Human, His

Alternative Name : CDF, HILDA, D-FACTOR, Differentiation- stimulating factor, Melanoma-derived LPL inhibitor, MLPLI, Emflermin, Leukemia inhibitory factor, LIF, DIA.

Description

Source: Escherichia Coli.

Filtered White lyophilized (freeze-dried) powder.

Leukemia Inhibitory Factor also called LIF is a lymphoid factor that promotes long-term maintenance of embryonic stem cells by suppressing spontaneous differentiation. Leukemia Inhibitory Factor has several functions such as cholinergic neuron differentiation, control of stem cell pluripotency, bone & fat metabolism, mitogenesis of factor dependent cell lines & promotion of megakaryocyte production in vivo. Human and mouse LIF exhibit a 78% identity in its amino acid sequence.

LIF Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (a.a 23-202) containing 189 amino acids including a 9 a.a N-terminal His tag. The total molecular mass is 20.9kDa (calculated).

Product Info

Amount : 2 µg / 10 µg

Purification : Greater than 95.0% as determined by SDS-PAGE.

Content : LIF filtered (0.4 µm) and lyophilized from 0.5mg/ml solution in 20 mM Tris buffer, 20 mM NaCl and 5% w/v trehalose, pH 7.5.

It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely.

Storage condition : Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.

Amino Acid : MKHHHHHHAS PLPITPVNAT CAIRHPCHNN LMNQIRSCLA QLNGSANALF ILYYTAQGEP FPNNDKLCG
PNVTDFPPFH ANGTEKAKLV ELYRIVVYLG TSLGNITRDQ KILNPSALS LHSKLNATADI LRGLLSNVLC
RLCSKYHVGH VDVTYGPPTS GKDFVQKKKL GCQLLGKYYKQ IIAVLAQAF.