

LIF Protein, Mouse, Recombinant (E. coli)

General Information

Synonyms:	Differentiation-stimulating factor;LIF;D factor
Protein Construction:	24-203 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	P09056
Molecular Weight:	19.9 kDa (Predicted)
AA Sequence:	SPLPITPVNA TCAIRHPCHG NLMNQIKNQL AQLNGSANAL FISYYTAQGE PFPNNVEKLC APNMTDFPSF HGNGTEKTKL VELYRMVAYL SASLTNITRD QKVLNPTAVS LQVKLNATID VMRGLLSNVL CRLCNKYRVG HVDVPPVPDH SDKEAFQRKK LGCQLLGTYK QVISVVVQAF

QC Testing

Biological Activity:	Fully biologically active when compared to standard. The specific activity is determined by inducing differentiation of murine M1 myeloid leukemic cells. The minimum detectable concentration of rMuLIF in this assay is 0.01 ng/ml. The specific activity of $> 1.0 \times 10^8$ IU/mg, where 50 units is defined as the amount of rMuLIF required to induce differentiation in 50 % of the M1 colonies in 1 ml agar cultures.
Purity:	$> 98\%$ as determined by SDS-PAGE and HPLC.
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μ m filtered concentrated solution in 20 mM PB, pH 7.4, with 0.02% Tween 20.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water containing 0.1% BSA. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C . For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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