

Product datasheet

Recombinant human LIF protein ab99450

Overview

Product name	Recombinant human LIF protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Escherichia coli
Amino Acid Sequence	
Accession	P15018
Species	Human
Molecular weight	20 kDa
Amino acids	23 to 202

Specifications

Our [Abpromise guarantee](#) covers the use of **ab99450** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Biological activity	The ED ₅₀ determined by the M1 cell differentiation assay is < 0.01 ng/ml, corresponding to a specific activity of 100 MIU/mg.
Applications	SDS-PAGE
Purity	> 95 % SDS-PAGE. Purity is >95% by SDS-PAGE and HPLC analyses.
Form	Lyophilised
Additional notes	Endotoxin level is <0.1 ng per µg.

Preparation and Storage

Stability and Storage	Shipped at 4°C. After reconstitution store at -20°C. Avoid freeze / thaw cycles. Constituent: 2.68% PBS This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. The

solution can then be diluted into other aqueous buffers and stored at 4 °C for 1 week, or as working aliquots at –20 °C for future use. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

General Info

Function	LIF has the capacity to induce terminal differentiation in leukemic cells. Its activities include the induction of hematopoietic differentiation in normal and myeloid leukemia cells, the induction of neuronal cell differentiation, and the stimulation of acute-phase protein synthesis in hepatocytes.
Sequence similarities	Belongs to the LIF/OSM family.
Cellular localization	Secreted.

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