

Animal-Free LIF Protein, Human (His)

Cat. No.:	HY-P700135AF
Synonyms:	Leukemia inhibitory factor; HILDA; D factor; MLPLI
Species:	Human
Source:	E. coli
Accession:	P15018 (S23-F202)
Gene ID:	3976
Molecular Weight:	Approximately 20.52 kDa

PROPERTIES

AA Sequence	<p>S P L P I T P V N A T C A I R H P C H N N L M N Q I R S Q L A Q L N G S A N A L</p> <p>F I L Y Y T A Q G E P F P N N L D K L C G P N V T D F P P F H A N G T E K A K L</p> <p>V E L Y R I V V Y L G T S L G N I T R D Q K I L N P S A L S L H S K L N A T A D</p> <p>I L R G L L S N V L C R L C S K Y H V G H V D V T Y G P D T S G K D V F Q K K K</p> <p>L G C Q L L G K Y K Q I I A V L A Q A F</p>
Biological Activity	Measure by its ability to induce TF-1 cells proliferation. The ED ₅₀ for this effect is <0.2 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1XPBS, pH 7.4.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The LIF protein possesses the capacity to induce terminal differentiation in leukemic cells. Its diverse range of activities encompasses the induction of hematopoietic differentiation in both normal and myeloid leukemia cells, prompting neuronal cell differentiation, and stimulating acute-phase protein synthesis in hepatocytes. These multifaceted activities underscore LIF's role in influencing cellular differentiation across various cell types and physiological contexts.
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Caution: Product has not been fully validated for medical applications. For research use only.

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