

Animal-Free LIF Protein, Mouse (His)

Cat. No.:	HY-P700220AF
Synonyms:	Leukemia inhibitory factor; HILDA; D factor; MLPLI
Species:	Mouse
Source:	E. coli
Accession:	P09056 (S24-F203)
Gene ID:	16878
Molecular Weight:	Approximately 20.68 kDa

PROPERTIES

AA Sequence	<p>S P L P I T P V N A T C A I R H P C H G N L M N Q I K N Q L A Q L N G S A N A L</p> <p>F I S Y Y T A Q G E P F P N N V E K L C A P N M T D F P S F H G N G T E K T K L</p> <p>V E L Y R M V A Y L S A S L T N I T R D Q K V L N P T A V S L Q V K L N A T I D</p> <p>V M R G L L S N V L C R L C N K Y R V G H V D V P P V P D H S D K E A F Q R K K</p> <p>L G C Q L L G T Y K Q V I S V V V Q A F</p>
Biological Activity	Measure by its ability to induce IL-6 secretion in M1 cells. The ED ₅₀ for this effect is <0.5 ng/mL. The specific activity of recombinant mouse LIF is >2 x 10 ⁶ IU/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, 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	LIF (Leukemia Inhibitory Factor) exhibits the capability to prompt terminal differentiation in leukemic cells, showcasing a diverse range of activities. Notably, it induces hematopoietic differentiation in both normal and myeloid leukemia cells, facilitates neuronal cell differentiation, and stimulates the synthesis of acute-phase proteins in hepatocytes. This multifaceted role underscores LIF's significance in orchestrating various cellular processes, contributing to the regulation of hematopoiesis, neurogenesis, and hepatic responses.
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Caution: Product has not been fully validated for medical applications. For research use only.

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