

## LIF Protein, Rat (HEK293, His)

Cat. No.:	HY-P78621
Synonyms:	LIF; CDF; DIA; HILDA; MLPLI
Species:	Rat
Source:	HEK293
Accession:	P17777-1 (S23-F202)
Gene ID:	60584
Molecular Weight:	30-55 kDa

### PROPERTIES

<b>AA Sequence</b>	<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 S 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 D K L C    A P N M T D F P P F    H A N G T E K T K L</p> <p>V E L Y R M V T Y L    G A S L T N I T W D    Q K N L N P T A V S    L Q I K L N A T T D</p> <p>V M R G L L S S V L    C R L C N K Y H V G    H V D V P C V P D N    S S 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 L A Q A F</p>
<b>Biological Activity</b>	Measured in a cell proliferation assay using M-NFS-60 cells. The ED <sub>50</sub> for this effect is 0.2365 ng/mL, corresponding to a specific activity is 4.23×10 <sup>6</sup> units/mg.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized a 0.22 μm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	Integrin alpha-2/beta-1, also known as ITGA2 protein, functions as a receptor for various extracellular matrix molecules including laminin, collagen, collagen C-propeptides, fibronectin, and E-cadherin. It specifically recognizes the proline-hydroxylated sequence G-F-P-G-E-R in collagen. This integrin plays a crucial role in mediating the adhesion of platelets and other cells to collagens. Additionally, it modulates the expression of collagen and collagenase genes, generates mechanical
-------------------	--

---

forces, and organizes newly synthesized extracellular matrix. In the context of microbial infection, the ITGA2:ITGB1 complex acts as a receptor for Human rotavirus A.

---

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA