

IL-6 Protein, Human (CHO)

Cat. No.:	HY-P7044A
Synonyms:	rHuIL-6; BSF-2; CDF; Hybridoma growth factor; IFN-beta-2
Species:	Human
Source:	CHO
Accession:	P05231 (P29-M212)
Gene ID:	3569
Molecular Weight:	21-23 kDa

PROPERTIES

AA Sequence	<p> P V P P G E D S K D V A A P H R Q P L T S S E R I D K Q I R Y I L D G I S A L R K E T C N K S N M C E S S K E A L A E N N L N L P K M A E K D G C F Q S G F N E E T C L V K I I T G L L E F E V Y L E Y L Q N R F E S S E E Q A R A V Q M S T K V L I Q F L Q K K A K N L D A I T T P D P T T N A S L L T K L Q A Q N Q W L Q D M T T H L I L R S F K E F L Q S S L R A L R Q M </p>
Biological Activity	The ED ₅₀ is <1 ng/mL as measured in a cell proliferation assay using TF-1 cells.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 10 mM acetic acid.
Endotoxin Level	<0.2 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	<p>Interleukin-6 (IL-6) is a 26-kD protein released by fibroblasts, T lymphocytes, endothelial cells, monocytes, and keratinocytes during inflammatory responses. IL-6 has pluripotent activities, including the stimulation of the monocytic lineage, the induction of megakaryopoiesis and the hepatic acute phase response, as well as the modulation of T- and B-cell responses. IL-6 is also capable of mediating direct and indirect tumor cell destruction and that it is potentially important for the immunotherapy of cancer^[1]. Recombinant human interleukin-6 (IL-6/BSF-2/HSF) regulates the synthesis of acute phase</p>
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proteins in human hepatocytes^[2].

REFERENCES

- [1]. Niekens J, et al. Recombinant human interleukin-6 induces a rapid and reversible anemia in cancer patients. *Blood*. 1995 Aug 1;86(3):900-5.
- [2]. Castell JV, et al. Recombinant human interleukin-6 (IL-6/BSF-2/HSF) regulates the synthesis of acute phase proteins in human hepatocytes. *FEBS Lett*. 1988 May 23;232(2):347-50.
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Caution: Product has not been fully validated for medical applications. For research use only.

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