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PA079

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Recombinant Human Interleukin-6 (IL-6)

Alternate names: B-cell stimulatory factor 2, BSF-2, CDF, CTL differentiation factor, Hybridoma growth factor,

IFNB2, IL-6, Interferon beta-2

Catalog No.: PA079
Quantity: 5 µg

Background: IL-6 is a pleiotropic cytokine that plays an important role in host defense by regulating

immune and inflammatory responses. Produced by T cells, monocytes, fibroblasts, endothelial cells and keratinocytes, IL-6 has diverse biological functions. It stimulates B-cell differentiation and antibody production, synergizes with IL-3 in megakaryocyte

development and platelet production, induces expression of hepatic acute-phase proteins, and regulates bone metabolism. IL-6 signals through the IL-6 receptor system that consists of two chains, IL-6R alpha and gp130. Murine IL-6 is inactive on human cells, while both

human and murine are equally active on murine cells.

Uniprot ID: <u>P05231</u>
NCBI: <u>NP 000591</u>

GenelD: 3569
Species: Human
Source: E. coli

Format: State: Lyophilized (sterile filtered) purified fraction.

Purity: >98% pure by SDS-PAGE and HPLC analyses. **Buffer System:** 10mM Sodium Phosphate, pH 7.5

Endotoxin Level: $< 0.1 \text{ ng per } \mu\text{g} \text{ (1EU/}\mu\text{g)}$

Reconstitution: Restore in Water to a concentration of 0.1-0.5 mg/ml. **Note:** Gently shake the solution for about 10 minutes for better solubility.

This solution can then be diluted into other aqueous buffers and stored at 2-8°C for 1 week

or at -20°C for future use.

Description: Recombinant Human IL-6 is a 20.9 kDa protein containing 184 amino acid residues.

AA Sequence:

PVPPGEDSKD VAAPHRQPLT SSERIDKQIR YILDGISALR KETCNKSNMC ESSKEALAEN NLNLPKMAEK DGCFQSGFNE ETCLVKIITG LLEFEVYLEY LQNRFESSEE QARAVQMSTK VLIQFLQKKA KNLDAITTPD

PTTNASLLTK LQAQNQWLQD MTTHLILRSF KEFLQSSLRA LRQM

Biological Activity: The ED50 as determined by the dose-dependent stimulation of the

proliferation of IL-6 dependent murine 7TD1 cells is ≤ 0.1 ng/ml.

Specific Activity: ≥ 1 x 10⁷ units/mg **Molecular weight:** 20.9 kDa (184 aa)

Add. Information: Centrifuge the vial prior to opening.

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PA079: Recombinant Human Interleukin-6 (IL-6)

Storage:

The lyophilized protein is stable at -20°C for one year from date of despatch. Reconstituted IL-6 is stable for 3 months when stored in working aliquots with a carrier protein at -20°C.

Avoid repeated freezing and thawing.

