

## Recombinant Human IL6, His-tagged

Cat. No. IL6-323H    Lot. No. (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Total 193 AA. MW: 22.05 kDa (calculated). N-Terminal His-tag, 10 extra AA (highlighted).                                                                                                                                                                                                                                                                |
| <b>Species</b>              | Human                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>               | E.coli                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>          | Interleukin-6 is a multi-functional cytokine that regulates immune responses, acute phase reactions and hematopoiesis, and it may play a central role in host defense mechanisms. IL-6 is usually not produced constitutively by normal cells, but its expression is readily induced by a variety of cytokines, lipopolysaccharide or viral infections. |
| <b>Form</b>                 | Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 20mM TRIS, 50mM NaCl, pH 7.5.                                                                                                                                                                                                                                                                         |
| <b>Research topic</b>       | Cytokines and chemokines and related molecules, Energy metabolism and body weight regulation.                                                                                                                                                                                                                                                           |
| <b>Reconstitution</b>       | Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.                                                                                          |
| <b>Applications</b>         | Western blotting                                                                                                                                                                                                                                                                                                                                        |
| <b>Quality Control Test</b> | BCA to determine quantity of the protein; SDS PAGE to determine purity of the                                                                                                                                                                                                                                                                           |

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protein.

**Sequences of amino acids**

MKHHHHHHAS VPPGEDSKDV AAPHRQPLTS SERIDKQIRY ILDGISALRK  
ETCNKSNMCE SSKEALAENN LNLPKMAEKD GCFQSGFNEE TCLVKIITGL  
LEFEVYLEYL QNRFESSEEQ ARAVQMSTKV LIQFLQKKAK NLDAITTPDP  
TTNASLLTKL QAQNQWLQDM TTHLILRSFK EFLQSSLRAL RQM

**Storage**

Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.

## GENE INFORMATION

**Gene Name**

IL6 interleukin 6 (interferon, beta 2) [ Homo sapiens ]

**Official Symbol**

IL6

**Synonyms**

IL6; interleukin 6 (interferon, beta 2); IFN-beta-2; IL-6; BSF2; BSF-2; HGF; HSF; IFNB2; CDF; Hybridoma growth factor; Interferon beta-2; B-cell stimulatory factor 2; B cell stimulatory factor-2; B-cell differentiation factor; interleukin BSF-2; interleukin-6; CTL differentiation factor; OTTHUMP00000158544; OTTHUMP00000198486; OTTHUMP00000198490

**Gene ID**

3569

**mRNA Refseq**

NM\_000600

**Protein Refseq**

NP\_000591

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|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MIM</b>                   | 147620                                                                                                                                                  |
| <b>UniProt ID</b>            | P05231                                                                                                                                                  |
| <b>Chromosome Location</b>   | 7q21                                                                                                                                                    |
| <b>Pathway</b>               | African trypanosomiasis; Cytokine-cytokine receptor interaction; Graft-versus-host disease; Intestinal immune network for IgA production                |
| <b>Function</b>              | cytokine activity; growth factor activity; nterleukin-6 receptor binding; contributes to interleukin-6 receptor binding; interleukin-6 receptor binding |
| <b>IL6 Crystal Structure</b> |                                                                      |