

## Active Recombinant Human IL6 Protein

Cat. No. IL6-068H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | The mature recombinant human IL-6 protein consists of 184 amino acids without tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | This gene encodes a cytokine that functions in inflammation and the maturation of B cells. In addition, the encoded protein has been shown to be an endogenous pyrogen capable of inducing fever in people with autoimmune diseases or infections. The protein is primarily produced at sites of acute and chronic inflammation, where it is secreted into the serum and induces a transcriptional inflammatory response through interleukin 6 receptor, alpha. The functioning of this gene is implicated in a wide variety of inflammation-associated disease states, including susceptibility to diabetes mellitus and systemic juvenile rheumatoid arthritis. Elevated levels of the encoded protein have been found in virus infections, including COVID-19 (disease caused by SARS-CoV-2). |
| <b>Bio-activity</b>     | Measured in a cell proliferation assay using T1165.85.2.1 mouse plasmacytoma cells. The ED50 for this effect is 0.2-0.8 ng/mL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Molecular Mass</b>   | 21.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Endotoxin</b>        | < 0.1 EU/μg of the protein as determined by the LAL method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| <b>Purity</b>         | > 95 % as determined by SDS-PAGE                      |
| <b>Storage</b>        | At -80 centigrade. Avoid repeated freeze-thaw cycles. |
| <b>Storage Buffer</b> | PBS                                                   |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | IL6 interleukin 6 [ Homo sapiens (human) ]                                                                                                                                                                                                           |
| <b>Official Symbol</b> | IL6                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>        | IL6; interleukin 6; CDF; HGF; HSF; BSF2; IL-6; BSF-2; IFNB2; IFN-beta-2; interleukin-6; Names; B-cell differentiation factor; B-cell stimulatory factor 2; CTL differentiation factor; hybridoma growth factor; interferon beta-2; interleukin BSF-2 |
| <b>Gene ID</b>         | 3569                                                                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>     | NM_000600                                                                                                                                                                                                                                            |
| <b>Protein Refseq</b>  | NP_000591                                                                                                                                                                                                                                            |
| <b>MIM</b>             | 147620                                                                                                                                                                                                                                               |
| <b>UniProt ID</b>      | Q75MH2                                                                                                                                                                                                                                               |

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