

## Product datasheet for **TP701114**

### IL6 (NM\_000600) Human Recombinant Protein

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | Purified recombinant protein of Human interleukin 6 (interferon, beta 2) (IL6), Val30-End, tag free, secretory expressed in HEK293 cells, 50ug       |
| Species:                              | Human  |
| Expression Host:                      | HEK293T  |
| Expression cDNA Clone or AA Sequence: | A DNA sequence from TrueORF clone, RC202078, encoding the region Val30-End of IL6  |
| Tag:                                  | Tag Free   |
| Predicted MW:                         | 20.8 kDa   |
| Concentration:                        | >0.05 µg/µL as determined by microplate BCA method   |
| Purity:                               | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:                               | PBS, pH 7.4  |
| Note:                                 | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage:                              | Store at -80°C after receiving vials.  |
| Stability:                            | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.        |
| RefSeq:                               | <a href="#">NP_000591</a>  |
| Locus ID:                             | 3569   |
| UniProt ID:                           | <a href="#">P05231</a> , <a href="#">Q75MH2</a> , <a href="#">B4DVM1</a>   |
| RefSeq Size:                          | 1201   |
| Cytogenetics:                         | 7p15.3   |
| RefSeq ORF:                           | 636  |
| Synonyms:                             | BSF-2; BSF2; CDF; HGF; HSF; IFN-beta-2; IFNB2; IL-6  |



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**Summary:**

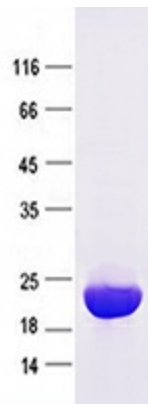
This gene encodes a cytokine that functions in inflammation and the maturation of B cells. In addition, the encoded protein has been shown to be an endogenous pyrogen capable of inducing fever in people with autoimmune diseases or infections. The protein is primarily produced at sites of acute and chronic 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). [provided by RefSeq, Aug 2020]

**Protein Families:**

Druggable Genome, Secreted Protein

**Protein Pathways:**

Cytokine-cytokine receptor interaction, Cytosolic DNA-sensing pathway, Graft-versus-host disease, Hematopoietic cell lineage, Hypertrophic cardiomyopathy (HCM), Jak-STAT signaling pathway, NOD-like receptor signaling pathway, Pathways in cancer, Prion diseases, Toll-like receptor signaling pathway

**Product images:**

Purified recombinant protein IL6 was analyzed by SDS-PAGE gel and Coomassie Blue Staining.