

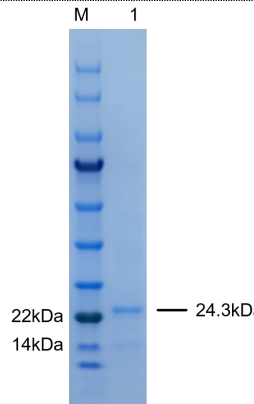


## Human Interleukin-6 (IL-6) Protein, Recombinant

### 1. For Sale

Product Name	Catalog #	Size
Human Interleukin-6 (IL-6) Protein, Recombinant	P01I0006P	10ug
		50ug
		500ug
		1mg

### 2. Product Description

Other Names	CDF; HGF; HSF; BSF2; IL-6; BSF-2; IFNB2; IFN-beta-2
Protein & NCBI Number	P05231, NM_000600.5
Host	E.coli
Express Region	Met1-Met212
Protein Sequence	MNSFSTSAFGPVAFSLGLLLVLPAAFPAPVPPGEDSKDVAAPHRQPLTSSERI DKQIRYILDGISALRKETCNKSNMCESSKEALAENNLNLPKMAEKDGCFS GFNEETCLVKIITGLLEFEVYLEYLQNRFESSEEQARAVQMSTKVLIQFLQK KAKNLDAITTPDPTTNASLLTKLQAQNQWLQDMTTHLILRSFKEFLQSSLR ALRQM
Molecular Weight	The protein consists of 217 amino acids, with a predicted molecular weight of 24.3kDa, which matches the actual molecular weight.
Fusion Tag	None
Purity	≥90% SDS-PAGE
Physical Property	Liquid
Components	0.01M PBS+20% glycerol, sterile solution.
Storage & Stability	After aliquoting, the stability of the samples can be maintained for up to 6 months at -20°C to -80°C, avoiding repeated freeze-thaw cycles.
Applications	Antibody preparation, immunoassay (ELISA, WB), subcellular localization and interaction protein identification, etc.
Lead Time	5 to 10 business days; 2 to 3 days for stock products.
Figure. SDS-PAGE	 <p>Bis-Tris (MOPS) SDS-PAGE</p>

### 3. Storage and Transportation

Transport at 2-8°C, product is stable for up to twelve months from date of receipt under sterile conditions at -20°C to -80°C.



#### 4. Notes

This product is for research use only. Please wear laboratory attire and disposable gloves when handling.

#### 5. Background

IL-6 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).

#### 6. References

- 1) Brock M, Trenkmann M, Gay RE, Michel BA, Gay S, Fischler M, Ulrich S, Speich R, Huber LC. Interleukin-6 modulates the expression of the bone morphogenic protein receptor type II through a novel STAT3-microRNA cluster 17/92 pathway. *Circ Res.* 2009 May 22;104(10):1184-91).
- 2) Tagliabracci VS, Wiley SE, Guo X, Kinch LN, Durrant E, Wen J, Xiao J, Cui J, Nguyen KB, Engel JL, Coon JJ, Grishin N, Pinna LA, Pagliarini DJ, Dixon JE. A Single Kinase Generates the Majority of the Secreted Phosphoproteome. *Cell.* 2015 Jun 18;161(7):1619-32.