

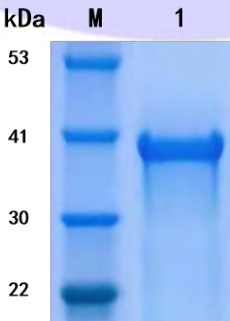


Human Interleukin-6 (IL-6) Protein, Recombinant

I. For sale

Product name	Catalog #	Size
Human Interleukin-6 (IL-6) Protein, Recombinant	P01I0070	10ug
		50ug
		100ug
		1mg

II. 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	1-212aa
Protein Length	Total length of the protein (including Tag)
Protein Sequence	MNSFSTSAFGPVAFSLGLLVLPAAFPAPVPPGEDSKDVAAPHR QPLTSSERIDKQIRYILDGISALRKETCNKSNMCESSKEALAENNLNLPKMAEKDGCF QSGFNEETCLVKIITGLLEFEVYLEYLQNRFESEEQARAVQMSTKVLIQFLQKKAKN LDAITTPDPTTNASLLTKLQAQNQWLQDMTTHLILRSFKEFLQSSLRALRQM
Molecular Weight	about 23.7kDa
Fusion Tag	6×His-SUMO (N-terminus)
Purity	≥95% SDS-PAGE
Physical Property	liquid or lyophilized powder
Reconstitution	Storage solution: We recommend using PBS or a suitable solvent according to the experimental requirements to prepare 1mg/mL storage solution, aliquot and store at -20 °C. Working solution: According to the experimental requirement, dilute Storage solution. The working solution can be stored at 4°C for 2-3 weeks after dilution.
Storage & Stability	The shelf life of liquid form is 6 months stored at -20 °C /-80 °C. The shelf life of lyophilized form is 12 months stored at -20 °C /-80 °C.
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	 Bis-Tris (MOPS) SDS-PAGE



III. Storage and Transportation

Product is stable for up to twelve months from date of receipt under sterile conditions at -20°C to -80°C. For optimal storage the lyophilized powder and protein stock solution should be aliquoted, and avoid freeze-thaw cycles.

IV. 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).

V. References

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Circ Res 104:1184-1191(2009) [PubMed] [Europe PMC] [Abstract]
2. Tagliabracci V.S., Wiley S.E., Guo X., Kinch L.N., Durrant E., Wen J., Xiao J., Cui J., Nguyen K.B., Engel J.L., Coon J.J., Grishin N., Pinna L.A., Pagliarini D.J., Dixon J.E. A single kinase generates the majority of the secreted phosphoproteome.
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Cited for: PHOSPHORYLATION AT SER-81