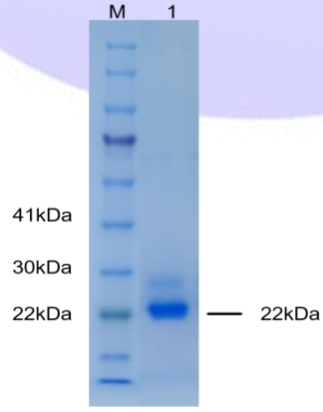
Human Interleukin-6 (IL-6) Protein, Recombinant

I. For sale

Product name	Catalog #	Size
Human Interleukin-6 (IL-6) Protein, Recombinant	P01I0006	10ug
		50ug
		500ug
		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	Met1-Met212
Protein Sequence	MNSFSTSAFGPVAFSLGLLLVLPAAFPAPVPPGEDSKDVAAPHRQPLTSSERIDKQIRYILDGISA LRKETCNKSNMCESSKEALAENNLNLPKMAEKDGCFQSGFNEETCLVKIITGLLEFEVYLEYLQ NRFESSEEQARAVQMSTKVLIQFLQKKAKNLDAITTPDPTTNASLLTKLQAQNQWLQDMTT HLILRSFKEFLQSSLRALRQM
Molecular Weight	The protein consists of 338 amino acids (including the fusion tag), with a predicted molecular weight of 38.0kDa, which matches the actual molecular weight.
Fusion Tag	6×His-SUMO (N-terminus)
Purity	≥95% 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	 Bis-Tris (MOPS) SDS-PAGE

III. **Storage and Transportation**

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

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. **Notes**

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

VI**. References**

Brock M., Trenkmann M., Gay R.E., Michel B.A., Gay S., Fischler M., Ulrich S., Speich R., Huber L.C.Interleukin-6 modulates the expression of the bone morphogenic protein receptor type II through a novel STAT3-microRNA cluster 17/92 pathway.

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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.

Cell 161:1619-1632(2015) [PubMed] [Europe PMC] [Abstract]

Cited for: PHOSPHORYLATION AT SER-81