

Active Recombinant Human IL6 Protein (Pro29-Met212), GMP Grade, Animal-Free

Cat. No. IL6-24HG Lot. No. (See product label)

SPECIFICATION

Product Overview	GMP recombinant human IL-6 protein (Pro29-Met212) without tag was expressed in E. coli, produced in an Animal-Free laboratory and manufactured and tested under cGMP guidelines.
Species	Human
Source	E.coli
ProteinLength	Pro29-Met212
Description	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).
Bio-activity	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.

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 Email: info@creative-biomart.com  Fax: 1-631-938-8127

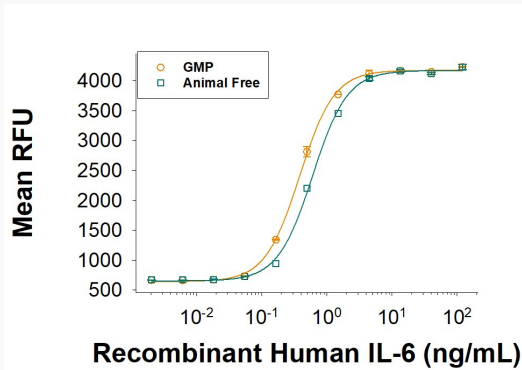
 45-1 Ramsey Road, Shirley, NY 11967, USA

	The specific activity of Recombinant Human IL-6 is >1.0 x 10 ⁸ IU/mg, which is calibrated against the human IL-6 WHO International Standard.
Molecular Mass	Predicted Molecular Mass: 20.9 kDa SDS-PAGE: 20-21 kDa, reducing conditions
N-terminal Sequence Analysis	Pro29-Val-Pro-Pro-Gly-Glu-Asp-Ser-Lys-Asp
Endotoxin	<0.10 EU/ µg of the protein by the LAL method.
Purity	>97%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. A minimum of 12 months when stored at ≤ -20 centigrade as supplied. Refer to lot specific COA for the Use by Date. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, ≤ -20 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in PBS and NaCl.
Reconstitution	Reconstitute at 100-200 µg/mL in sterile PBS.
Shipping	The product is shipped with polar packs.
GENE INFORMATION	
Gene Name	IL6 interleukin 6 (interferon, beta 2) [Homo sapiens]
Official Symbol	IL6

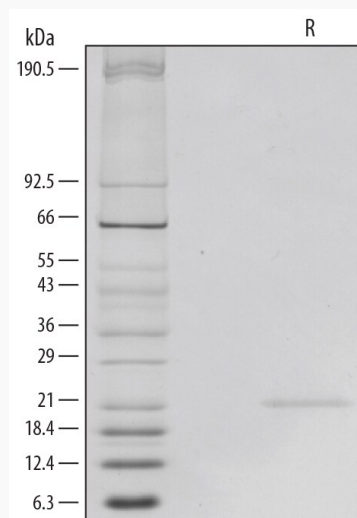
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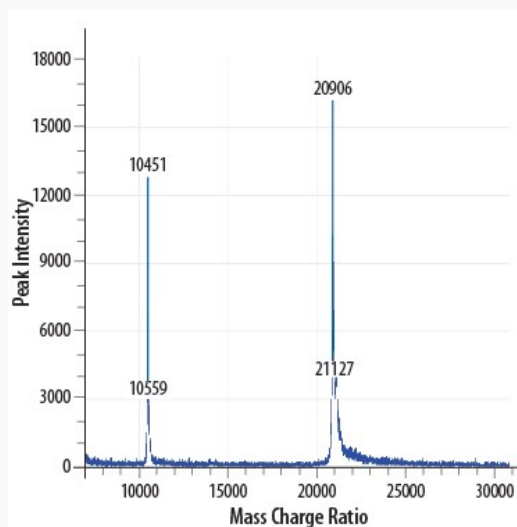
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Synonyms	IL6; interleukin 6 (interferon, beta 2); IFNB2; interleukin-6; BSF2; HGF; HSF; IL 6; CDF; BSF-2; IFN-beta-2; interferon beta-2; interleukin BSF-2; hybridoma growth factor; CTL differentiation factor; B-cell stimulatory factor 2; B-cell differentiation factor; IL-6;
Gene ID	3569
mRNA Refseq	NM_000600
Protein Refseq	NP_000591
MIM	147620
UniProt ID	P05231
Bioactivity	

SDS-PAGE



Mass Spectrometry



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