

Active GMP Recombinant Human IL6 Protein

Cat. No. IL6-210HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mature form of human IL6 (NP_000591.1) (Val30-Met212) was expressed with an initial Met at the N-terminus in an animal component free process under cGMP guidelines.
Species	Human
Source	E.coli
ProteinLength	30-212 a.a.
Predicted N Terminal	Met
Form	Lyophilized from sterile PBS, pH 7.4, 5 % trehalose, 5 % mannitol and 0.01% Tween80.
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized human IL6 at 10µg/mL (100µL/well) can bind human IL6R-His, the EC50 of human IL6R-His is 0.1-0.5 µg/mL. Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 0.2-0.8 ng/mL. The specific activity of recombinant human IL-6 is approximately 3.2×10^5 IU/µg, which is calibrated against human IL-6 WHO International Standard (NIBSC code: 89/548).
Molecular Mass	The GMP recombinant human IL6 consists of 184 amino acids and has a calculated molecular mass of 20.9 kDa.

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Endotoxin	< 0.01 EU per µg of the protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	IL6 interleukin 6 (interferon, beta 2) [Homo sapiens]
Official Symbol	IL6
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

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Protein Refseq	NP_000591
MIM	147620
UniProt ID	P05231

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