

IL-6 Protein, Cynomolgus, Recombinant (His)

General Information

Synonyms:	CDF;BSF-2;IL6;HGF;Interleukin-6;HSF;MGI-2A;IFN- β -2;IL-6;IFN-beta-2;IFNB2
Protein Construction:	Ala28-Met212
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	P79341
Molecular Weight:	22.06 kDa (predicted). Due to glycosylation, the protein migrates to 25-30 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Cynomolgus IL-6, His Tag at 2 μ g/ml (100 μ l/well) on the plate. Dose response curve for Human IL-6 R alpha, hFc Tag with the EC50 of 13.8ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

IL-6 (Interleukin-6) is a pleiotropic cytokine that acts in the acute phase reaction, inflammation, hematopoiesis, bone metabolism, and cancer progression. Interleukin 6 has been shown to interact with interleukin-6 receptor and glycoprotein.

Reference

Gabay C. Interleukin-6 and chronic inflammation[J]. Arthritis Research & Therapy, 2006, 8.

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