

IL-6R alpha/CD126 Protein, Human, Recombinant (His & Avi)

General Information

Synonyms:	IL-6R subunit alpha;IL-6R 1;IL-6RA;IL-6 R α /CD126;IL-6R-alpha;gp80;IL6R;IL-6R subunit α ; CD126;IL-6R- α ;IL6RQ
Protein Construction:	Leu20-Pro365
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P08887-1
Molecular Weight:	41.4 kDa (predicted). Due to glycosylation, the protein migrates to 65-78 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	1. Immobilized Human IL-6, No Tag at 2 μ g/ml (100 μ l/well) on the plate. Dose response curve for Human IL-6 R alpha, His Tag with the EC50 of 0.15 μ g/ml determined by ELISA. 2. Human IL-6 R alpha, His Tag captured on CM5 Chip via anti-his antibody can bind Human IL-6, No Tag with an affinity constant of 0.22 nM as determined in SPR assay.
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

The multifunctional factor interleukin 6 (IL-6) exerts its activities through binding to a high-affinity receptor complex consisting of two membrane glycoproteins: an 80 kDa component receptor that binds IL-6 with low

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affinity (IL-6R alpha) and a signal-transducing component of 130 kDa (gp130) that does not bind IL-6 by itself, but is required for high-affinity binding of IL-6 by the complex. Both components of the receptor complex, IL-6R alpha and gp130 have been cloned, sequenced, and expressed.

Reference

Schmidt-Arras D , Rose-John S. IL-6 pathway in the liver: from physiopathology to therapy[J]. Journal of Hepatology, 2016:S0168827816000830.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481