Recombinant Human IL-6 Protein

Catalog No.: RP00201

Sequence Information

Species
Human

Gene ID
3569

Swiss Prot
P05231

Tags
C-His

Synonyms
IL6,BSF-2,BSF2,CDF,HGF,HSF,IFN-beta-2,IFNB2,IL-6

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
21.65 kDa

Observed MW
23-30

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Interleukin-6 (IL-6) is a multifunctional α-helical cytokine that regulates cell growth and differentiation of various tissues, which is known particularly for its role in the immune response and acute phase reactions. 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 protein is implicated in a wide variety of inflammation-associated disease states, including suspectibility to diabetes mellitus and systemic juvenile rheumatoid arthritis.

Basic Information

Description
Recombinant Human IL-6 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Val30-Met212) of human IL6 (Accession #NP_000591.1) fused with a 6×His tag at the C-terminus.

Activity
1.Measured by its binding ability in a functional ELISA.Immobilized Human IL6R at 1 μg/mL (100 μL/well) can bind Human IL-6 with a linear range of 2-15 ng/mL.
2.Measured in a cell proliferation assay using TF-1 Human erythroleukemic cells. The ED_{50} for this effect is 0.10-0.40 ng/mL. The specific activity of Recombinant Human IL-6 is >1.2 × 10^8 IU/mg, which is calibrated against the human IL-6 WHO International Standard (NIBSC code: 21/308).

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

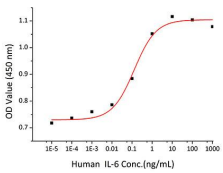
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

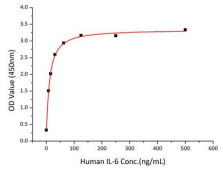
400-999-6126
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Please visit http://abclonal.com for a complete listing of recommended products.

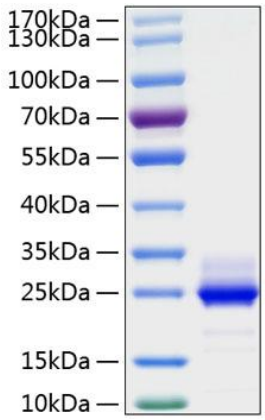
Validation Data



Measured in a cell proliferation assay using TF-1 Human erythroleukemic cells. The ED_{50} for this effect is 0.10-0.40 ng/mL. The specific activity of Recombinant Human IL-6 is >1.2 × 10^8 IU/mg, which is calibrated against the human IL-6 WHO International Standard (NIBSC code: 21/308).



Immobilized Human IL6R at 1 μg/mL (100 μL/well) can bind Human IL-6 with a linear range of 2-15 ng/mL.



Recombinant Human IL-6 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.