

Recombinant Human IL-35/IL-12A&IL-27B Protein

Catalog No.: RP03521 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3592&10148	P29459-1,Q14213

Tags

Synonyms

IL-35/IL-12A&IL-27B/IL12A;
NKSF1&EBI3; IL27B

Product Information

Source	Purification
HEK293 cells	≥ 90 % as determined by SDS-PAGE.

Calculated MW	Observed MW
50.7 KDa, 51.3 KDa	60 , 63 KDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from sterile PBS, pH 7.4. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

IL-12A is a subunit of a cytokine that acts on T and natural killer cells and has a broad array of biological activities. The cytokine is a disulfide-linked heterodimer composed of the 35-kD subunit encoded by this gene, and a 40-kD subunit that is a member of the cytokine receptor family. IL-12A, together with IL27B, form a disulfide-linked heterodimer: IL-12A&IL-27B. IL-12A&IL-27B is required for the T-cell-independent induction of IFN-gamma and is important for the differentiation of both Th1 and Th2 cells.

Basic Information

Description

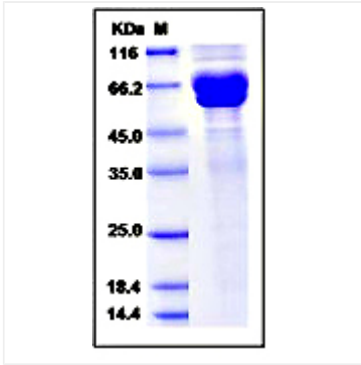
Recombinant Human IL-35/IL-12A&IL-27B Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Ser219) of IL-12A fused with a C-terminal Fc region of human IgG1 tag followed by a His tag and sequence (Met1-Lys229) of IL-27B was fused with a C-terminal Fc region of human IgG1 tag followed by a FLAG tag. The two plasmids were co-expressed and the heterodimer was purified.

Bio-Activity

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human IL-35/IL-12A&IL-27B Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.