

IL-12 Protein, Human, Recombinant

General Information

Synonyms:	IMD29;CLMF;IL12;NFSK;IL-12A;interleukin 12A;NKSF1;IL12 p70;IL-12B;P35;NKSF2;CLMF2;NKSF;IMD28
Protein Construction:	A DNA sequence encoding the human IL12A (P29459-1)(Met1-Ser219) was expressed, constructed the plasmid 1; A DNA sequence encoding the human IL12B (NP_002178.2)(Met1-Ser328) was expressed, constructed the plasmid 2. The two plasmids were co-expressed and the human IL12A&IL12B heterodimer was purified. Predicted N terminal: Arg23&Ile23
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P29459-1&NP_002178.2
Molecular Weight:	57.2 kDa (predicted); 34 & 41 kDa (reducing conditions)

QC Testing

Biological Activity:	Measured by its ability to induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED50 for this effect is 0.2-2 ng/mL.
Purity:	≥ 95 % as determined by SDS-PAGE. ≥ 95 % as determined by SEC-HPLC.
Endotoxin:	< 5 EU/mg of the protein.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:	Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.
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. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

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