

IL-12 Protein, Mouse, Recombinant (hFc)

General Information

Synonyms:	p40;IL12a;IL-12p35;p35;IL-12p40;IL-12b;IL-12a;IL12p40;interleukin 12A
Protein Construction:	A DNA sequence encoding the p35 subunit of mouse IL12, termed as IL12A (P43431) (Met 1-Ala 215) was fused with the Fc region of human IgG1 at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the p40 subunit of mouse IL12, termed as IL12B (P43432) (Met 1-Ser 335) was fused with the Fc region of human IgG1 at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the heterodimer was purified. Predicted N terminal: Arg 23 & Met 23
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P43431&P43432
Molecular Weight:	111.5 kDa (predicted); 55 & 75 kDa (reducing conditions)

QC Testing

Biological Activity:	1. Immobilized Mouse IL12RB2 (His Tag) at 2 µg/mL (100 µL/well) can bind Mouse IL-12 (hFc Tag), the EC50 is 30-340 ng/mL. 2. Measured by its ability to induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED50 for this effect is 0.1-0.8 µg/mL.
Purity:	> 85 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
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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