

Active Recombinant Mouse IL12A & IL12B protein, His-tagged

Cat. No. IL12A & IL12B-1243M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IL12A and IL12B protein(Arg23-Ala215 and Met23-Ser335), fused with C-terminal His tag, was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	23-215 aa&23-335 aa
Form	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Bio-activity	1. Immobilized Mouse IL-12A&IL-12B at 5 µg/mL (100 µL/well) can bind Human IL12RB1 with a linear range of 0.001-3.3 ng/mL. 2. Recombinant Mouse IL-12A&IL-12B stimulates cell proliferation of the IL2-activated mouse splenocytes. The ED50 for this effect is 0.01- 0.03 ng/mL, corresponding to a specific activity of $3.3 \times 10^7 \sim 1 \times 10^8$ units/mg. 3. Measured by its ability to induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED50 for this effect is 0.63-2.54 ng/mL, corresponding to a specific activity of $3.94 \times 10^5 \sim 1.58 \times 10^6$ units/mg.
Molecular Mass	22.53 kDa(IL-12A), 35.79 kDa(IL-12B)
Endotoxin	< 0.1 EU/µg of the protein by LAL method.
Purity	≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

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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.

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.

GENE INFORMATION

Gene Name IL12a interleukin 12a [*Mus musculus*]

Official Symbol IL12A

Synonyms IL12A; interleukin 12a; interleukin-12 subunit alpha; CLMF p35; IL-12 subunit p35; interleukin 12a p35 subunit; cytotoxic lymphocyte maturation factor 35 kDa subunit; p35; LI12a; IL-12a; IL-12p35; MGC151228; MGC151232;

Gene ID 16159

mRNA Refseq NM_001159424

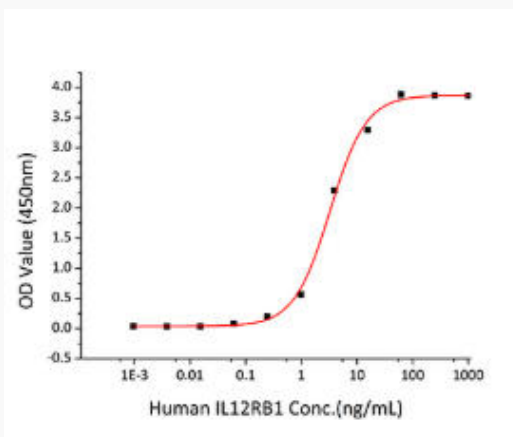
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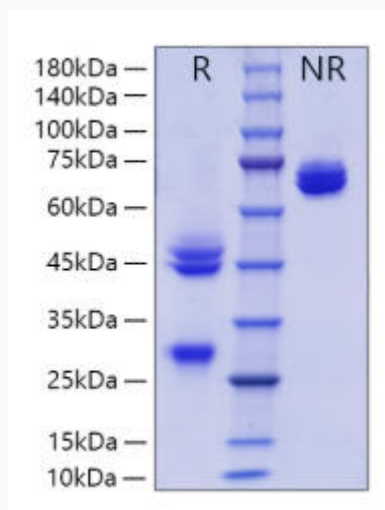
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Activity



SDS-PAGE



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