# Recombinant Mouse IL-12/IL-12A&IL-12B Protein

Catalog No.: RP01691 Recombinant

# **Sequence Information**

Species	Gene ID	Swiss Prot
Mouse	16159&1616	P43431
	0	∏P43432

Tags

C-His(IL-12a)&No tag(IL-12b)

#### Synonyms

p35; L112a; Il-12a; IL-12p35&p40; Il-12b; Il12p40; Il-12p40;IL-12&Il12b;IL-12 p70 [IL12A&IL12B]

# **Product Information**

Purification
≥ 95 % as
determined by SDS-
PAGE;≥ 95 % as
determined by
HPLC.

## Calculated MW Observed MW

22.53 kDa(IL-12A), 28-30 kDa(IL-12A), 35.79 kDa(IL-12B) 45 kDa(IL-12B)

## Endotoxin

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

#### Formulation

Lyophilized from a 0.22  $\mu m$  filtered solution of PBS, pH 7.4.

#### 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.

# Contact

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$\bowtie$	cn.market@abclonal.com.cn

# Background

Interleukin 12 (IL-12) is a pleiotropic cytokine that plays an essential role in Th1-type immune response against cancer, a condition where cells in a particular part of the body grow and reproduce uncontrollably.

# **Basic Information**

## Description

Active Recombinant Mouse IL-12/IL-12A&IL-12B Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg23-Ala215 []Met23-Ser335) of Mouse IL-12A&IL-12B (Accession #P43431[]P43432) fused with and a 6×His tag at the C-terminus(IL-12).

## **Bio-Activity**

1.Measured by its binding ability in a functional ELISA.Immobilized Mouse IL-12A&IL-12B (Catalog: RP01691) at 5 µg/mL (100 µL/well) can bind Human IL12RB1 with a linear range of 0.001-3.3 ng/mL.|2.Measured in a cell proliferation assay using 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 ED<sub>50</sub> for this effect is 7.3-29.2 ng/mL, corresponding to a specific activity of  $3.4 \times 10^4 \sim 1.4 \times 10^5$  units/mg.

#### Storage

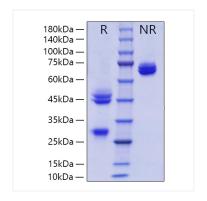
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

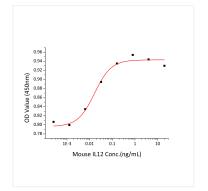
Avoid repeated freeze/thaw cycles.



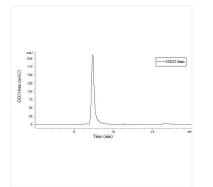
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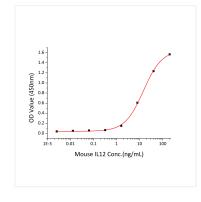
Recombinant Mouse IL-12/IL-12A&IL-12B Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



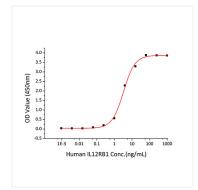
Recombinant Mouse IL-12A&IL-12B stimulates cell proliferation of the IL2-activated mouse splenocytes. The ED<sub>50</sub> for this effect is 0.01- 0.03 ng/mL, corresponding to a specific activity of  $3.3 \times 10^7 \sim 1 \times 10^8$  units/mg.



Recombinant Mouse IL-12/IL-12A&IL-12B Protein is greater than 95% as determined by SEC-HPLC.



Recombinant Mouse IL-12/IL-12A&IL-12B induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED<sub>50</sub> for this effect is 7.3-29.2 ng/mL, corresponding to a specific activity of  $3.4 \times 10^4 \sim 1.4 \times 10^5$  units/mg.



Immobilized Mouse IL-12A&IL-12B (Catalog: RP01691) at 5  $\mu$ g/mL (100  $\mu$ L/well) can bind Human IL12RB1 with a linear range of 0.001-3.3 ng/mL.