

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

Catalog No.: RP01691

Sequence Information

Species	Gene ID
Mouse	16159&16160
Swiss Prot	Tags
P43431 & P43432	C-His(IL-12a) &No tag(IL-12b)

Synonyms

p35; IL12; IL-12a; IL-12p35&p40; IL-12b; IL12p40; IL-12p40,IL-12&IL12b; IL-12 p70 (IL12A&IL12B)

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

Calculated MW/Observed MW

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

Endotoxin

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

Formulation

Lyophilized from a 0.22 μm 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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 a 6×His tag at the C-terminus (IL-12).

Activity

1. 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. 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.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

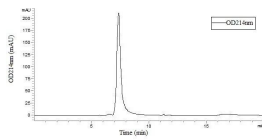
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

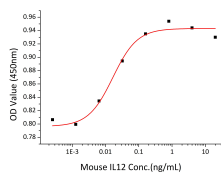
Contact

	400-999-6126
	cn.market@abclonal.com.cn
	www.abclonal.com.cn

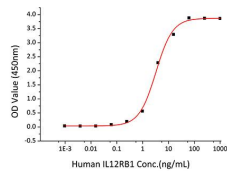
Validation Data



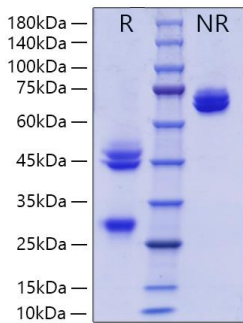
Recombinant Mouse IL-12/IL-12A&IL-12B Protein is greater than 95% as determined by SEC-HPLC.



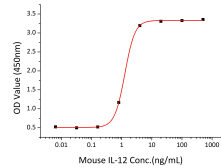
Recombinant Mouse IL-12A&IL-12B stimulates cell proliferation of the IL2-activated mouse splenocytes. The ED₅₀ for this effect is 0.01- 0.03 ng/mL, corresponding to a specific activity of 3.3×10⁷~ 1× 10⁸ units/mg.



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.



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



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 3.94×10⁵~1.58×10⁶ units/mg.