

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

RPCB1046

Description

This high-purity Recombinant Mouse IL-12/IL-12A&IL-12B Protein is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

Protein Information

SKU:	RPCB1046
Contents:	10 µg, 20 µg, 50 µg, 100 µg Bradford Reagent: 1 vial (2ml)
Synonyms:	p35, IL12a, IL-12a, IL-12p35&p40, IL-12b, IL12p40, IL-12p40, IL-12&IL12b, IL-12 p70 (IL12A&IL12B)
Species:	Mouse
Gene ID:	16159&16160
Expression Host:	HEK293 cells
Tags:	C-His(IL-12a)&No tag(IL-12b)
Calculated MW:	22.53 kDa(IL-12A), 35.79 kDa(IL-12B)
Observed MW:	28-30 kDa(IL-12A), 45 kDa(IL-12B)
Purification:	≥ 95 % as determined by SDS-PAGE, ≥ 95 % as determined by HPLC.
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.
Bio- Activity:	1. Measured by its binding ability in a functional ELISA. Immobilized Mouse IL-12A&IL-12B (RPCB1046) at 5 µg/mL (100 µL/well) can bind Human IL12RB1 with a linear range of 0.001-3.3 ng/mL.

Manufacturers Statement - This final kit system is assembled and quality-released by Assay Genie Limited

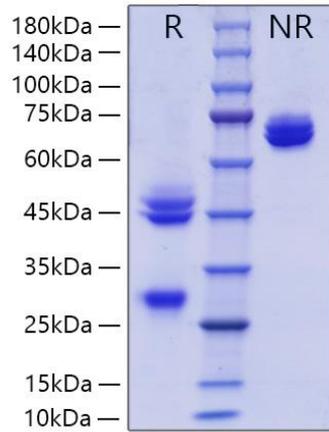
2. Measured in a cell proliferation assay using IL2-activated mouse splenocytes. The ED50 for this effect is 0.01- 0.03 ng/mL, corresponding to a specific activity of $3.3 \times 10^7 \sim 1 \times 10^8$ units/mg.
3. Measured by its ability to induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED 50 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.

Preparation & Storage

- Shipping:** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
- 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.
Store Bradford Reagent at Room Temperature for 1 Year.
- 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.
- Protein Quantification (Optional):** To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol.

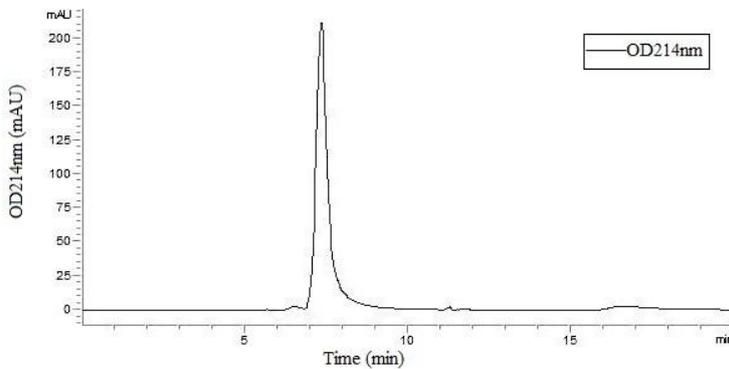
Validation Data

Image

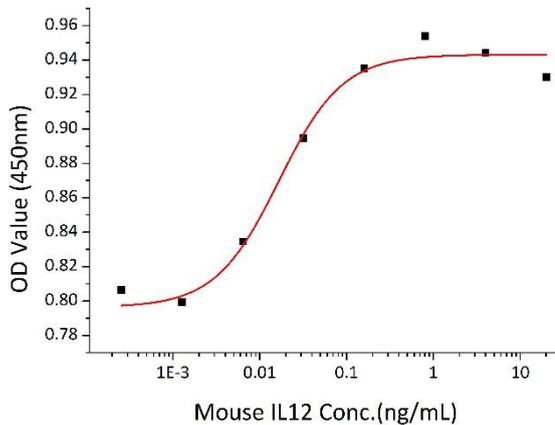


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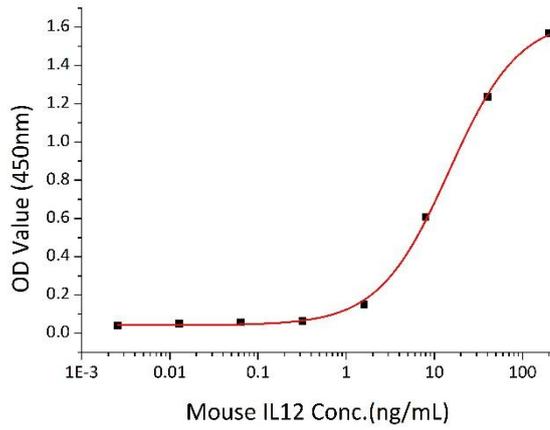
Recombinant Mouse IL-12/IL-12A&IL-12B Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



Recombinant Mouse IL-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 $3.3 \times 10^7 \sim 1 \times 10^8$ units/mg.



Recombinant Mouse IL-12/IL-12A&IL-12B induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED50 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.