

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

RPCB0906

Description

This high-purity Recombinant Human 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:	RPCB0906
Contents:	10 µg, 20 µg, 50 µg, 100 µg Bradford Reagent: 1 vial (2ml)
Synonyms:	CLMF, IL12, p70, Interleukin-12, IL12A, P35, NKSF
Species:	Human
Gene ID:	3592&3593
Expression Host:	-
Tags:	C-His(IL12B)&C-Flag(IL12A)
Calculated MW:	25.54 kDa(IL-12A), 35.54 kDa(IL-12B)
Observed MW:	37 kDa(IL-12A), 40-55 kDa(IL-12B)
Purification:	≥ 95 % as determined by SDS-PAGE.
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. Contact us for customized product form or formulation.
Bio- Activity:	1. Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human IL-12 at 1 µg/mL (100 µL/well) can bind Recombinant Human IL12Rβ1 with a linear range of 30.6-122.4 ng/mL.

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

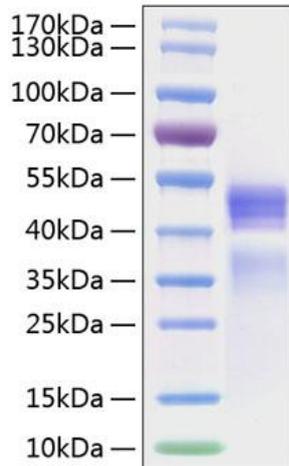
2. Measured in a cell proliferation assay using anti-CD3 antibody activated Human T lymphocyte leukemia cells (jurkat). The ED 50 for this effect is typically 0.1-0.4 ng/mL, corresponding to a specific activity of 2.5×10^6 - 1.0×10^7 units/mg.
3. Measured by its ability to induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED 50 for this effect is 2-8 ng/mL, corresponding to a specific activity of 1.25×10^5 ~ 5×10^5 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.

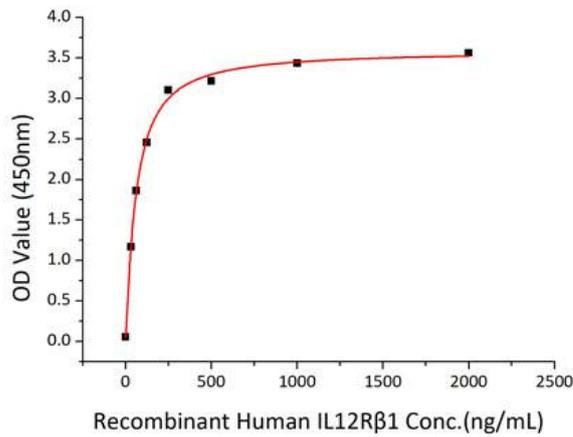
Validation Data

Image

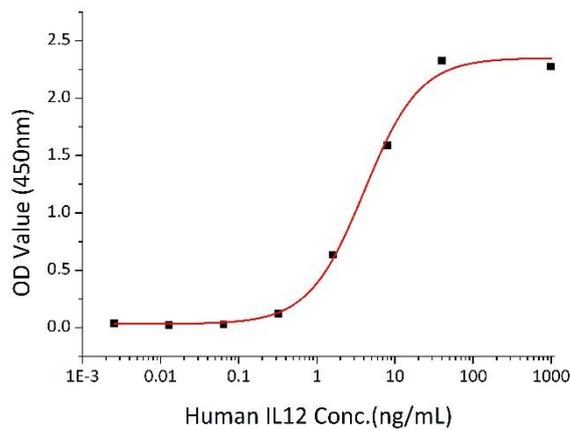


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Recombinant Human IL-12/IL-12A&IL-12B Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Recombinant Human IL-12 at 1µg/mL (100 µL/well) can bind Recombinant Human IL12Rβ1 with a linear range of 30.6-122.4 ng/mL.



Recombinant Human IL-12/IL-12A&IL-12B induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED50 for this effect is 2-8 ng/mL, corresponding to a specific activity of $1.25 \times 10^5 \sim 5 \times 10^5$ units/mg.