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

Catalog No.: RP01232 Recombinant

# **Sequence Information**

 Species
 Gene ID
 Swiss Prot

 HEK293 cells 3592&3593
 P29459&P2

 9460
 9460

#### Tags

C-His(IL12B)&C-Flag(IL12A)

#### **Synonyms**

CLMF;IL12;p70;Interleukin-12;IL12A;P3 5;NKSF

#### **Product Information**

Source

**Purification** 

> 95% by SDS-PAGE.

#### **Endotoxin**

 $< 0.1 \; \text{EU/}\mu\text{g}$  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.

#### 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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# **Background**

# **Basic Information**

#### Description

Active Recombinant Human IL-12A&IL-12B Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ile23-Ser328&Arg23-Ser219) of human IL-12 (Accession #NP\_002178.2/NP\_000873.2) fused with a 6×His tag at the C-terminus(IL12B), Flag tag at the C-terminus(IL12A).

#### **Bio-Activity**

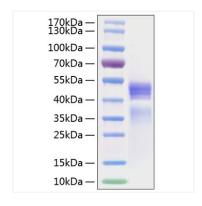
1.Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human IL-12 at 1  $\mu g/mL$  (100  $\mu L/well)$  can bind Recombinant Human IL12R $\beta 1$  with a linear range of 30.6-122.4 ng/mL.|2.Measured in a cell proliferation assay using anti-CD3 antibody activated Human T lymphocyte leukemia cells (jurkat). The ED<sub>50</sub> for this effect is typically 0.1-0.4 ng/mL, corresponding to a specific activity of

 $2.5\times10$ <sup>6</sup>-1.0×10<sup>7</sup> 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 2-8 ng/mL, corresponding to a specific activity of 1.25×10<sup>5</sup> vnits/mg.

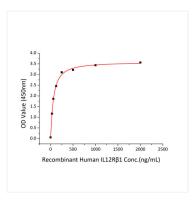
## Storage

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

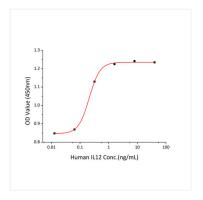
# **Validation Data**



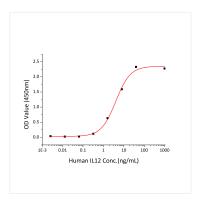
Recombinant Human IL-12/IL-12A&IL-12B Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Recombinant Human IL-12 at  $1\mu g/mL$  (100  $\mu L/well$ ) can bind Recombinant Human IL12R $\beta 1$  with a linear range of 30.6-122.4 ng/mL.



Recombinant Human IL-12 promotes the proliferation of 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  $2.5 \times 10^6$ - $1.0 \times 10^7$ units/mg.



Recombinant Human IL-12/IL-12A&IL-12B 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  $1.25\times10^5\sim5\times10^5$  units/mg.