

# Recombinant Cynomolgus IL-23 alpha&Mouse IL-12 beta Protein

Catalog No.: RP02725 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Cynomolgus & Mouse	16160&102128555	A0A2K5TLV4-1(Cynomolgus IL-23 alpha)&P43432-1(Mouse IL-12 beta)

## Tags

N-His

## Synonyms

IL23 alpha; IL12 beta; IL23 alpha&IL12 beta

## Product Information

Source	Purification
HEK293 cells	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Endotoxin

Less than 1EU per µg by the LAL method.

## Formulation

### Reconstitution

Centrifuge the tube 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.

## Contact

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## Background

Interleukin (IL)-12 and IL-23 belong to the IL-12 type family and are composite cytokines, consisting of the common β subunit p40 and the specific cytokine α subunit p35 and p19, respectively. IL-12 signals via the IL-12Rβ1·IL-12Rβ2 receptor complex, and IL-23 uses also IL-12Rβ1 but engages IL-23R as second receptor.

## Basic Information

### Description

Recombinant Cynomolgus IL-23 alpha&Mouse IL-12 beta Protein is expressed from Expi293 with His tag at the N-terminal. It contains Val22-Pro189(Cynomolgus IL-23 alpha)&Met23-Ser335(Mouse IL-12 beta).

### Bio-Activity

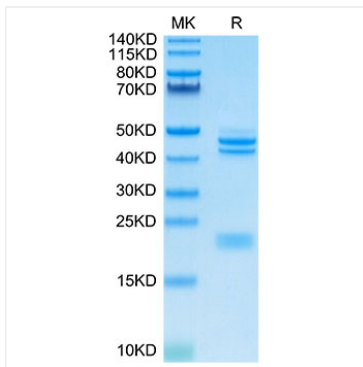
### Storage

Store the lyophilized protein at -20°C to -80°C for long term.

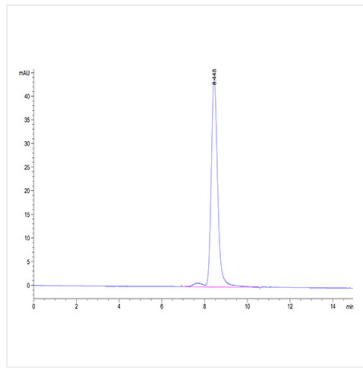
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

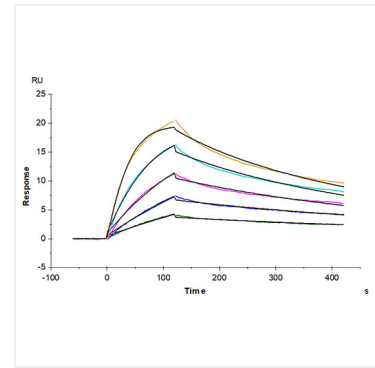
## Validation Data



Cynomolgus IL-23 alpha&Mouse IL-12 beta on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Cynomolgus IL-23 alpha&Mouse IL-12 beta is greater than 95% as determined by SEC-HPLC.



Cynomolgus IL-23R, His Tag immobilized on CM5 Chip can bind Cynomolgus IL-23 alpha&Mouse IL-12 beta, His Tag with an affinity constant of 3.90 nM as determined in SPR assay (Biacore T200).