

# Recombinant Cynomolgus IL-23A&Mouse IL-12B Protein

Catalog No.: RP02725 Recombinant

IL-12 beta)

## **Sequence Information**

Species	Gene ID	<b>Swiss Prot</b>
Cynomolgus	16160&1021	A0A2K5TLV4-
&Mouse	28555	1(Cynomolgu
		s IL-23
		alpha)&P434
		32-1(Mouse

## **Tags**

N-His

Н

## **Synonyms**

IL23 alpha; IL12 beta; IL23 alpha&IL12

## **Product Information**

Source	Purification
HEK293 cells	≥ 95 % as
	determined by Tris
	Bis PAGE;≥ 95 % a
	determined by
	HPLC.

## Calculated MW Observed MW

19.5	22 kDa(Cynomolgus
kDa(Cynomolgus	IL23 alpha), 40-50
IL-23 alpha), 35.8	kDa(Mouse IL12
kDa(Mouse IL-12	beta)
beta)	

## **Endotoxin**

< 1 EU/ $\mu g$  of the protein by 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 stablizer (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 (IL)-12 and IL-23 belong to the IL-12 type family and are composite cytokines, consisting of the common  $\beta$  subunit p40 and the specific cytokine  $\alpha$  subunit p35 and p19, respectively. IL-12 signals via the IL-12R $\beta$ 1·IL-12R $\beta$ 2 receptor complex, and IL-23 uses also IL-12R $\beta$ 1 but engages IL-23R as second receptor.

#### **Basic Information**

## **Description**

Recombinant Cynomolgus IL-23A&Mouse IL-12B Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val22-Pro189(Cynomolgus IL-23A)&Met23-Ser335(Mouse IL-12B)) of cynomolgus IL-23A&mouse IL-12B (Accession #A0A2K5TLV4-1(Cynomolgus IL-23A)&P43432-1(Mouse IL-12B)) fused with His tag at the N-terminus.

## **Bio-Activity**

#### 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.

Avoid repeated freeze/thaw cycles.

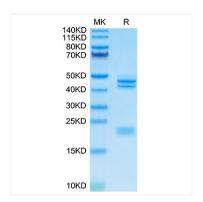
#### **Operational Notes**

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

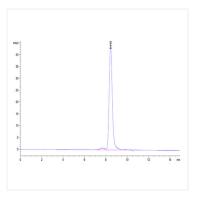
## Contact

6	400-999-6126
$\bowtie$	cn.market@abclonal.com.cr
•	www.abclonal.com.cr

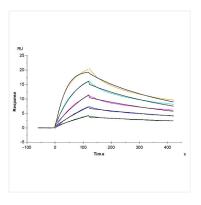
## **Validation Data**



Recombinant Cynomolgus IL-23A&Mouse IL-12B Protein was determined by Tris-Bis PAGE under reducing conditions.



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).