

# Cynomolgus IL-23R Protein

Cat. No. ILR-CM123



## Description

<b>Source</b>	Recombinant Cynomolgus IL-23R Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gly24-Asp353.
<b>Accession</b>	G7NWX5
<b>Molecular Weight</b>	The protein has a predicted MW of 39.03 kDa. Due to glycosylation, the protein migrates to 60-80 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

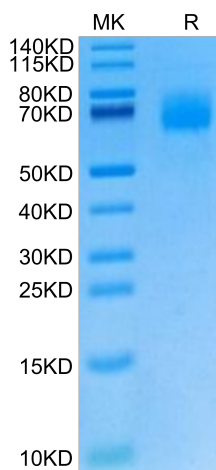
<b>Formulation</b>	Supplied as 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Interleukin-23 (IL-23), a member of the IL-12 family of cytokines, is a heterodimeric cytokine. It is composed of subunits p40 (shared with IL-12) and p19 (an IL-12 p35-related subunit) and is secreted by several types of immune cells, such as natural killer cells and dendritic cells. The IL-23 receptor is composed of the subunit IL-12R $\beta$ 1 and the IL-23-specific subunit IL-23R. The binding of IL-23 to its specific cell surface receptor regulates a number of functions, including proliferation and differentiation of cells and secretion of cell factors.

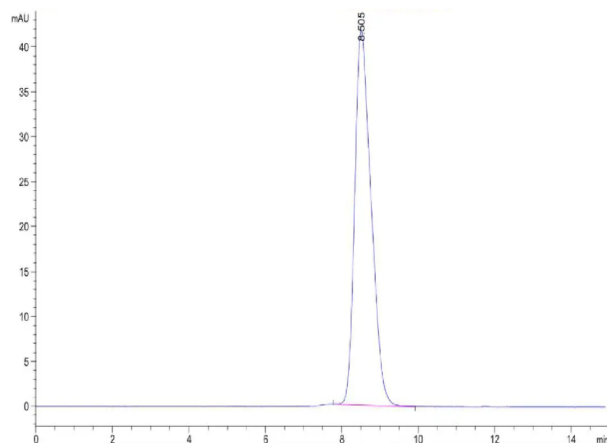
## Assay Data

### Bis-Tris PAGE



Cynomolgus IL-23R on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



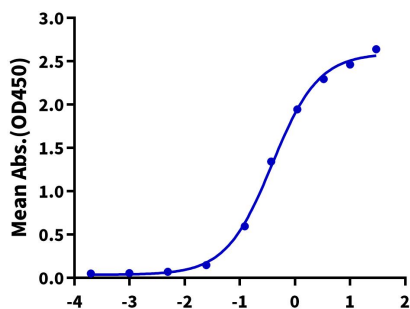
The purity of Cynomolgus IL-23R is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Cynomolgus IL-23R, His Tag ELISA**

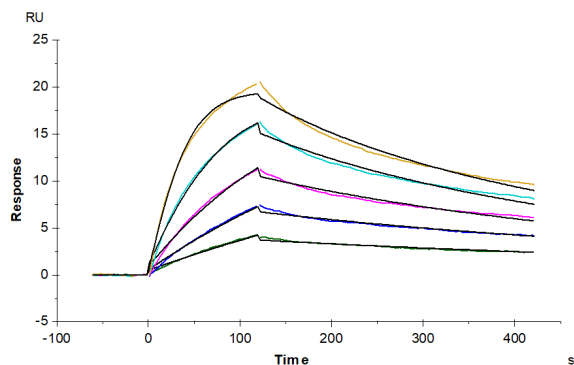
0.5µg Cynomolgus IL-23R, His Tag Per Well



Log Biotinylated Human IL-23 alpha&IL-12 beta, His Tag Conc.(µg/ml)

Immobilized Cynomolgus IL-23R, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human IL-23 alpha&IL-12 beta, His Tag with the EC50 of 0.39µg/ml determined by ELISA (QC Test).

SPR Data



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).