

Rev04  
 Update: Aug,08,2025

**DATASHEET**

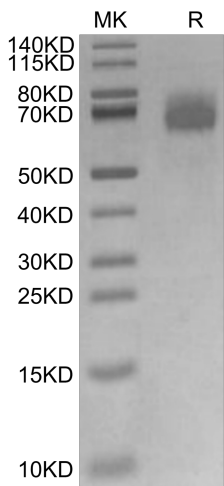
# IL-23R, His, Cynomolgus

Cat. No.: Z04838

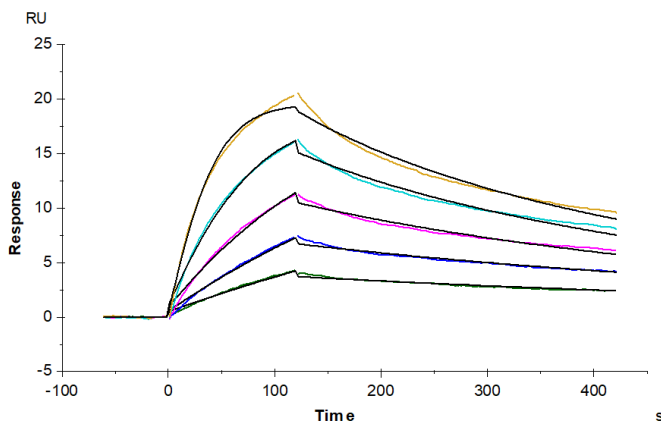
## Product Introduction

<b>Species</b>	Cynomolgus
<b>Protein Construction</b>	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; margin-right: 10px;"> <b>IL-23R (Gly24-Asp353)</b>            Accession # G7NWX5         </div> <div style="background-color: #76b82a; color: white; padding: 5px; margin-right: 10px;">His</div> </div> <div style="display: flex; justify-content: space-around; font-size: small; margin-top: 5px;"> <span>N-term</span> <span>C-term</span> </div>
<b>Purity</b>	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
<b>Endotoxin Level</b>	Less than 1EU per µg by the LAL method.
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized IL-23R, His, Cynomolgus at 5µg/ml (100µl/well) on the plate can bind Biotinylated Human IL23 alpha&IL12 beta, His Tag. Test result was comparable to standard batch.
<b>Expression System</b>	HEK293
<b>Theoretical Molecular Weight</b>	39.03 kDa
<b>Apparent Molecular Weight</b>	Due to glycosylation, the protein migrates to 60-80 kDa based on Bis-Tris PAGE result.
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage &amp; Stability</b>	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

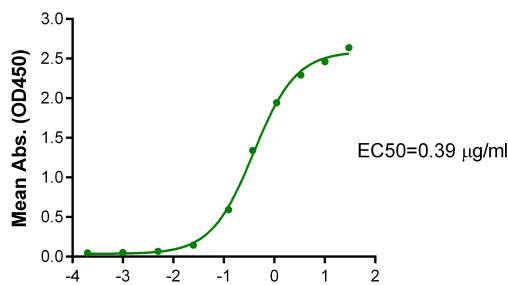
## Examples



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

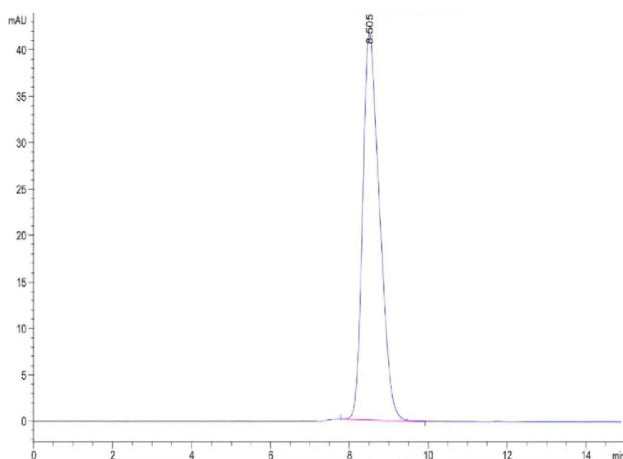


IL-23R, His, Cynomolgus, His Tag immobilized on CM5 Chip can bind Cynomolgus IL-23 alpha&Mouse IL-12 beta, His Tag with an affinity constant of 3.90 nM as determined in SPR assay (Biacore T200).



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

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



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

## Background

**Target Background :** Interleukin 23 (IL-23) is a heterodimeric cytokine composed of two disulfide-linked subunits, a p19 subunit that is unique to IL-23, and a p40 subunit that is shared with IL-12. The functional IL-23 receptor complex consists of two receptor subunits, the IL-12 receptor beta 1 subunit (IL-12 R beta 1) and the IL-23-specific receptor subunit (IL-23 R). This receptor associates with IL12RB1 to form the interleukin-23 receptor. Binds IL23 and mediates T-cells, NK cells and possibly certain macrophage/myeloid cells stimulation probably through activation of the Jak-Stat signaling cascade.

**Synonyms :** IBD17; IL-23 R; IL-23 receptor

**For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.**

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