

Rev03
 Update: Aug,08,2025

DATASHEET

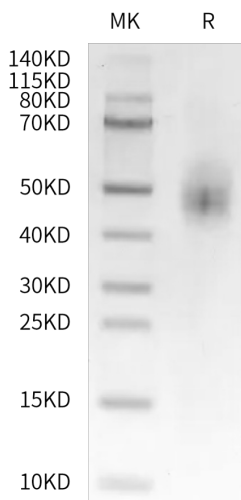
IL-10 R alpha [Biotin], His, Cynomolgus

Cat. No.: Z04370

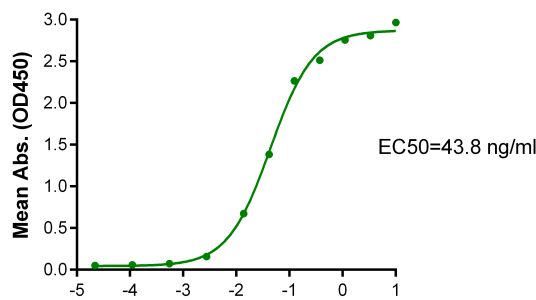
Product Introduction

Species	Cynomolgus
Protein Construction	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> IL-10 R alpha (His22-Asn233) Accession # A0A2K5WJ66 </div> <div style="background-color: #76b82a; color: white; padding: 5px; text-align: center; margin-left: 10px;"> His </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px; font-size: small;"> N-term C-term </div>
Conjugate	Biotin
Purity	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human IL10, No Tag at 2µg/ml (100µl/well) on the plate can bind IL-10 R alpha [Biotin], His, Cynomolgus. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	25.34 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 45-60 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4).
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	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

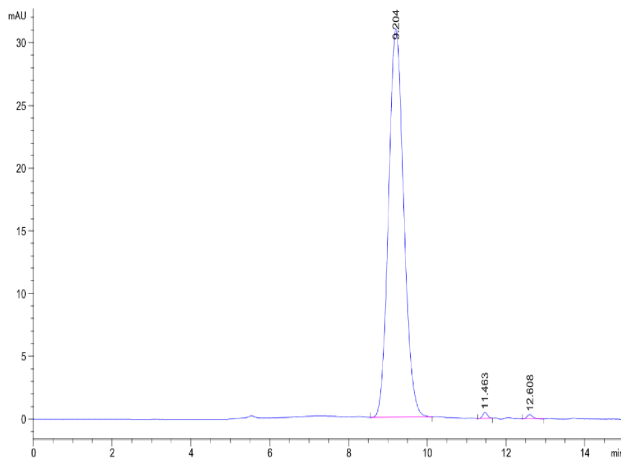


IL-10 R alpha [Biotin], His, Cynomolgus on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



Log Biotinylated Cynomolgus IL-10 R alpha, His Tag Conc. ($\mu\text{g/ml}$)

Immobilized Human IL-10, No Tag at $2\ \mu\text{g/ml}$ ($100\ \mu\text{l/well}$) on the plate. Dose response curve for IL-10 R alpha [Biotin], His, Cynomolgus, His Tag with the EC₅₀ of $43.8\ \text{ng/ml}$ determined by ELISA.



The purity of IL-10 R alpha [Biotin], His, Cynomolgus is greater than 95% as determined by SEC-HPLC.

Background

Target Background : The interleukin-10 receptor alpha (IL10RA) gene codes for the alpha chain of the IL-10 receptor which binds the cytokine IL-10. IL-10 is an anti-inflammatory cytokine with immunoregulatory function during the pathogenesis of many inflammatory disorders in livestock, including Johne's disease (JD). JD is a chronic enteritis in cattle caused by Mycobacterium avium subsp. paratuberculosis (MAP) and is responsible for significant economic losses to the dairy industry. Several candidate genes including IL10RA have been found to be associated with JD.

Synonyms : IL-10RA; IL10RA; IL10R; IL-10R1; IL-10R subunit 1; CDw210a; HIL-10R; IBD28; IL-10 R alpha

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

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