

Rev04
 Update: Aug,20,2025

DATASHEET

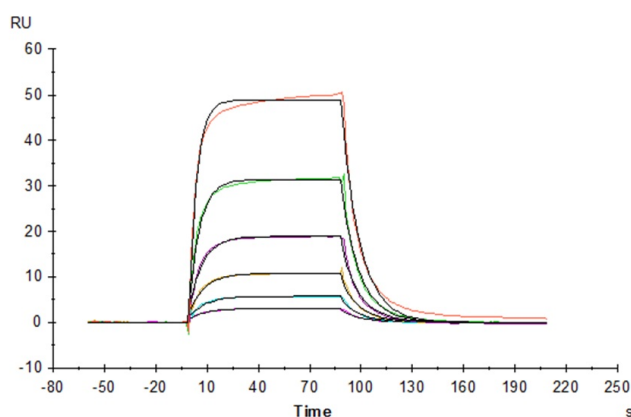
IL-3 R alpha/CD123, His, Human

Cat. No.: Z05494

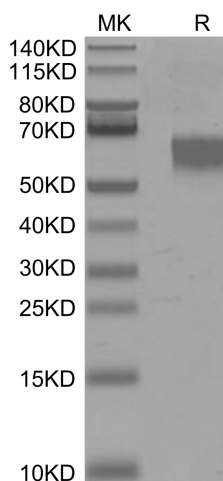
Product Introduction

Species	Human
Protein Construction	IL-3 R alpha/CD123 (Thr19-Arg305) Accession # P26951-1 His N-term C-term
Purity	> 95% as determined by Bis-Tris PAGE
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	33.9 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22µm 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 for 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.

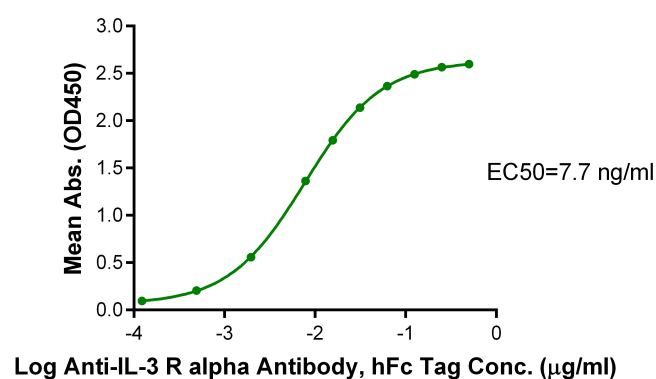
Examples



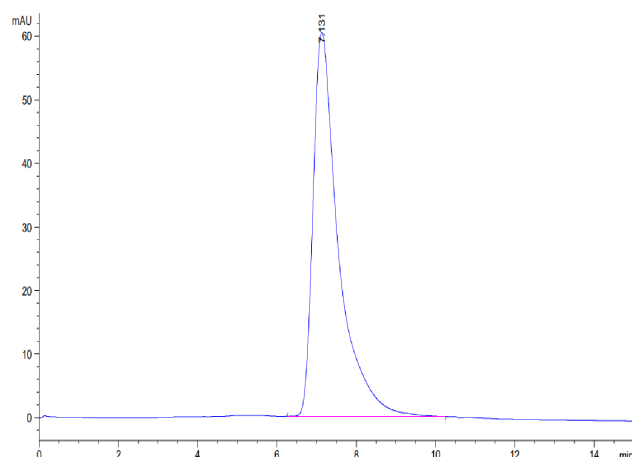
Human IL-3, hFc Tag captured on CM5 Chip via Protein A can bind IL-3 R alpha/CD123, His, Human, His Tag with an affinity constant of 0.276 µM as determined in SPR assay (Biacore T200).



IL-3 R alpha/CD123, His, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



Immobilized IL-3 R alpha/CD123, His, Human, His Tag at 1 $\mu\text{g/ml}$ (100 μl /well) on the plate. Dose response curve for Anti-IL-3 R alpha Antibody, hFc Tag with the EC50 of 7.7 ng/ml determined by ELISA.



The purity of IL-3 R alpha/CD123, His, Human is greater than 95% as determined by SEC-HPLC.

Background

Target Background : Interleukin-3 receptor subunit alpha, also known as IL-3 receptor subunit alpha, IL-3R-alpha, CD123, and IL3RA, is a single-pass type I membrane protein which belongs to the type I cytokine receptor family and Type 5 subfamily. The specific alpha subunit of the interleukin-3 receptor (IL-3Ralpha, CD123) is strongly expressed in various leukemic blasts and leukemic stem cells and seems to be an excellent target for the therapy of leukemias.

Synonyms : CD123; IL-3R subunit alpha; IL3R; IL3RA; IL-3Ra; IL3RAY; IL3RX; IL3RY; MGC34174; IL-3 R alpha

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

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