

Rev03  
 Update: Aug,08,2025

**DATASHEET**

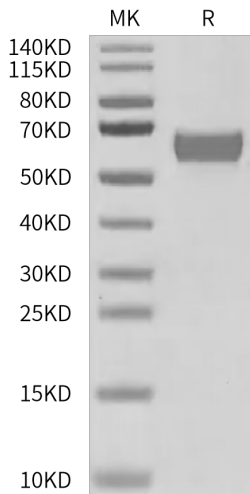
# IL-3 R Beta/CD131, His, Human

Cat. No.: Z05495

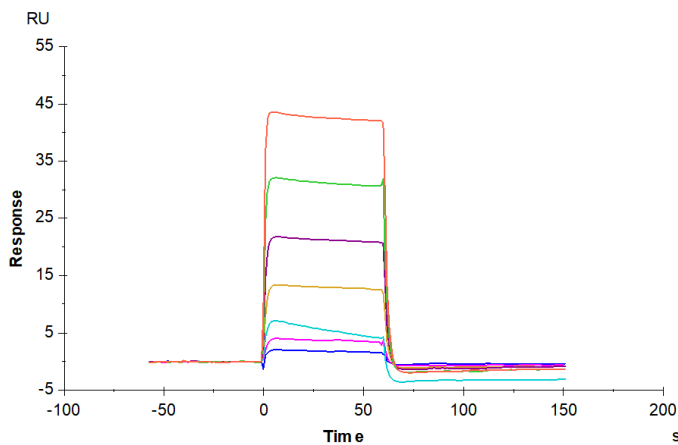
## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> <b>IL-3 R Beta/CD131 (Thr17-Trp443)            Accession # P32927-1</b> </div> <div style="background-color: #76923c; color: white; padding: 5px; text-align: center; margin-left: 10px;"> <b>His</b> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px; font-size: small;"> <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>	IL-3 R Beta/CD131, His, Human immobilized on CM5 Chip can bind Human GMCSF, No Tag in SPR assay (Biacore T200). Test result was comparable to standard batch.
<b>Expression System</b>	HEK293
<b>Theoretical Molecular Weight</b>	50.30 kDa
<b>Apparent Molecular Weight</b>	Due to glycosylation, the protein migrates to 55-70 kDa based on Bis-Tris PAGE result.
<b>Formulation</b>	Lyophilized from 0.22 µm 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.

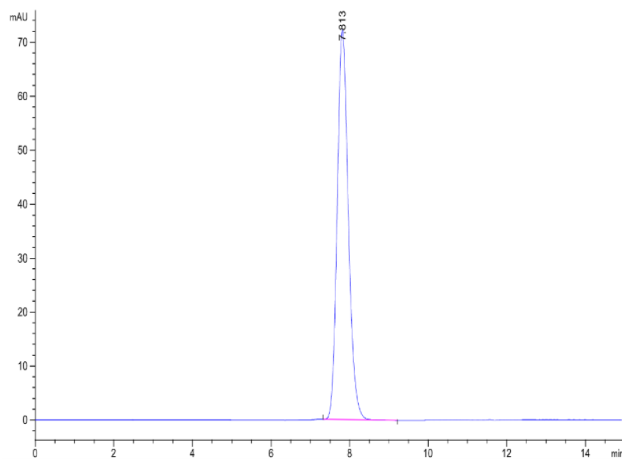
## Examples



IL-3 R Beta/CD131, His, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



IL-3 R Beta/CD131, His, Human, His Tag immobilized on CM5 Chip can bind Human GM-CSF, No Tag with an affinity constant of 4.13  $\mu\text{M}$  as determined in SPR assay (Biacore T200) (QC Test).



The purity of IL-3 R Beta/CD131, His, Human is greater than 95% as determined by SEC-HPLC.

## Background

**Target Background :** Interleukin-3 receptor (IL-3R) is a heterodimer that comprises an IL-3 specific alpha chain (IL-3R alpha) and a common beta chain (beta C) that is shared with the receptors for granulocyte-macrophage colony-stimulating factor (GM-CSF) and IL-5. The beta c subunit does not bind any cytokine by itself but is involved in the formation of high-affinity functional receptors for IL-5 and GM-CSF. These receptors belong to the cytokine receptor superfamily, but they are structurally and functionally more related to each other and thus make up a distinct subfamily.

**Synonyms :** CDw131; CD131; CSF2RB; IL3RB; IL5RB; AIC2A; Csfgrb

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

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