

Human IL-3 R Beta/CD131 Protein

Cat. No. IL3-HM2RB

Description

Source	Recombinant Human IL-3 R Beta/CD131 Protein is expressed from HEK293 with hFc tag at the C-terminus. It contains Thr17-Trp443.
Accession	P32927-1
Molecular Weight	The protein has a predicted MW of 74.63 kDa. Due to glycosylation, the protein migrates to 75-90 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	>95% as determined by Bis-Tris PAGE >95% as determined by HPLC

Formulation and Storage

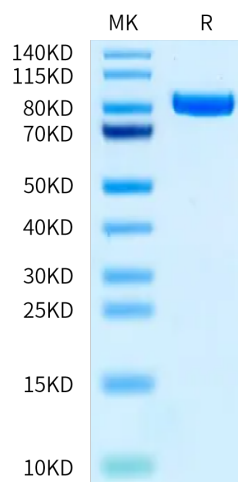
Formulation	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Interleukin-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.

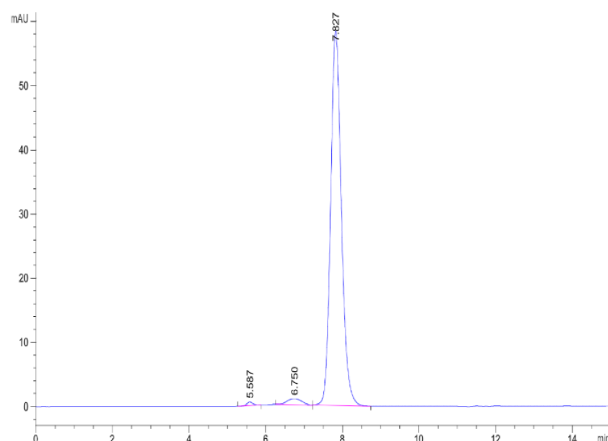
Assay Data

Bis-Tris PAGE



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

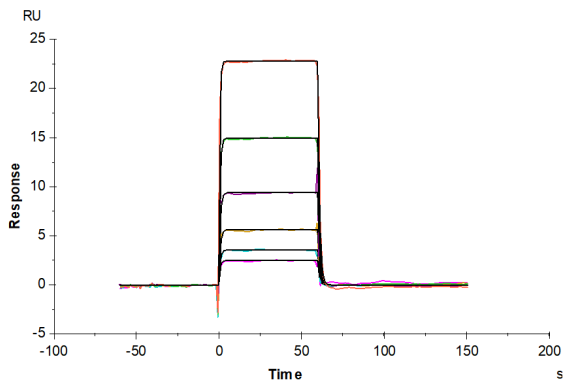
SEC-HPLC



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

Assay Data

SPR Data



Human IL-3 R Beta, hFc Tag captured on CM5 Chip via Protein A can bind Human GM-CSF, No Tag with an affinity constant of 6.78 μ M as determined in SPR assay (Biacore T200) (QC Test).