Human IL-3 R Beta/CD131 Protein

Cat. No. IL3-HM1RB

Description

Source	Recombinant Human IL-3 R Beta/CD131 Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Thr17-Trp443.
Accession	P32927-1
Molecular Weight	The protein has a predicted MW of 50.30 kDa. Due to glycosylation, the protein migrates to 55-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

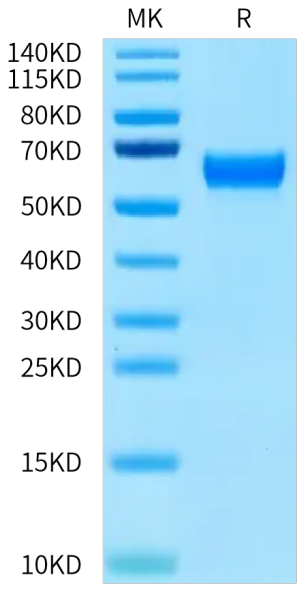
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.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

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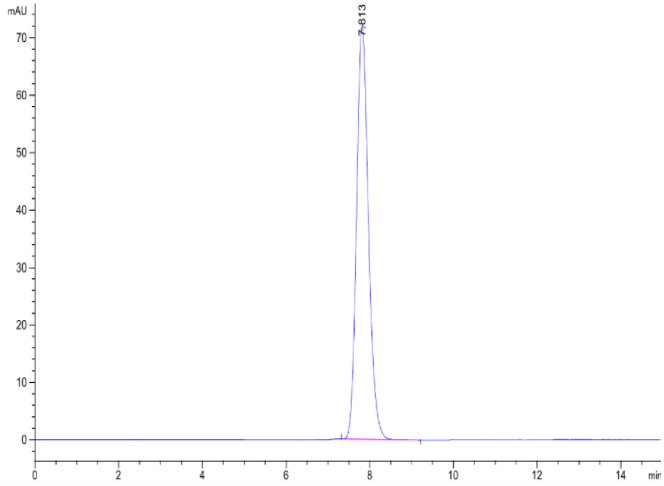
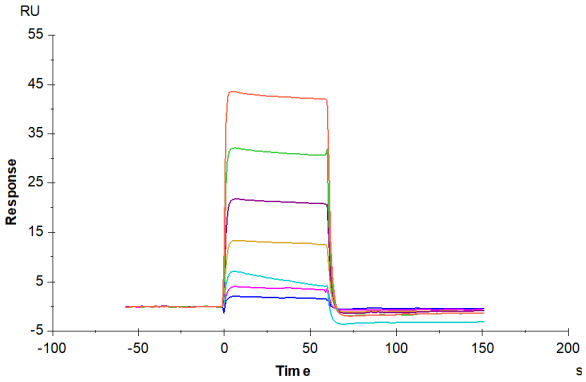
Assay Data



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

SPR Data



Human IL-3 R Beta, His Tag immobilized on CM5 Chip can bind Human GM-CSF, No Tag with an affinity constant of 4.13 μM as determined in SPR assay (Biacore T200) (QC Test).

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