

Biotinylated Human IL-7 R alpha/CD127 Protein, Ultra Low Endotoxin

Cat. No. IL7-HM4RAB-UL

Description

Source	Recombinant Biotinylated Human IL-7 R alpha/CD127 Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus. It contains Glu21-Asp239.
Accession	P16871-1
Molecular Weight	The protein has a predicted MW of 28.16 kDa. Due to glycosylation, the protein migrates to 50-65 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

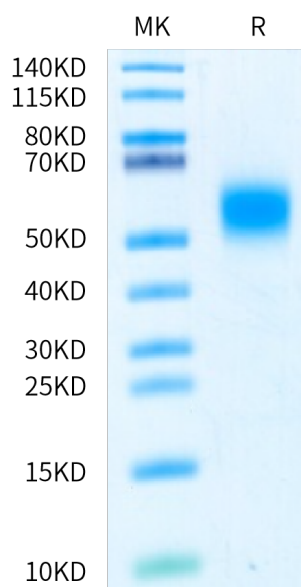
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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 7 (IL-7) and its receptor (IL-7R, a heterodimer of IL-7R α and γ c) are essential for normal lymphoid development. IL-7 and IL-7R activate three main pathways: STAT5, PI3K/Akt/mTOR and MEK/Erk, ultimately leading to the promotion of leukemia cell viability, cell cycle progression and growth.

Assay Data

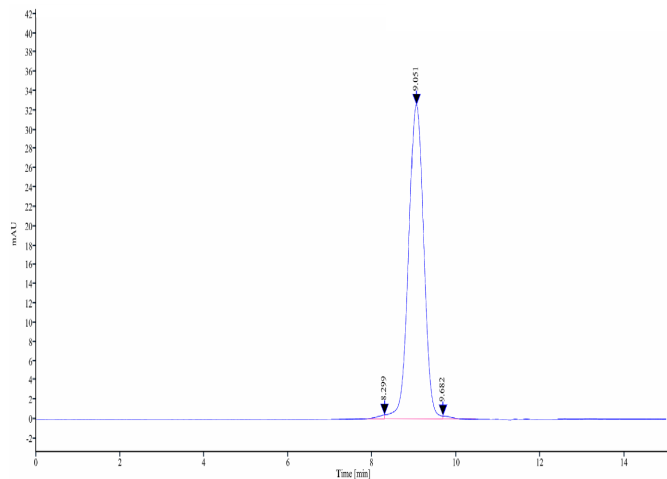
Bis-Tris PAGE



Biotinylated Human IL-7 R alpha on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

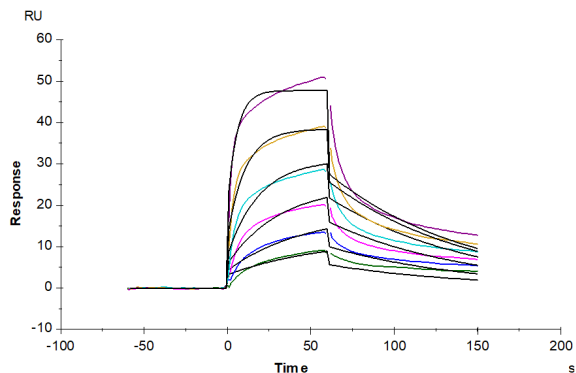
SEC-HPLC

Assay Data



The purity of Biotinylated Human IL-7 R alpha is greater than 95% as determined by SEC-HPLC.

SPR Data



Biotinylated Human IL-7R alpha, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human IL-7, No Tag with an affinity constant of 7.37 nM as determined in SPR assay (Biacore T200).