Human IL-7R alpha/CD127 Protein





Description	
Source	Recombinant Human IL-7R alpha/CD127 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Glu21-Gly236.
Accession	P16871-1
Molecular Weight	The protein has a predicted MW of 25.7 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

Formulation and Storage

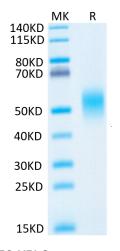
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days 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-7Rα and γc) 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.

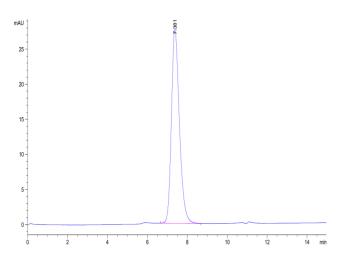
Assay Data

Tris-Bis PAGE



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

SEC-HPLC



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

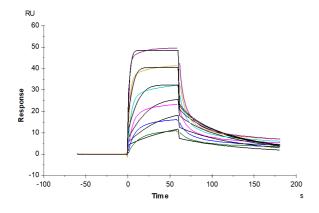
Human IL-7R alpha/CD127 Protein

Cat. No. IL7-HM1RA



Assay Data

SPR Data



Human IL-7 R alpha, His Tag captured on CM5 Chip via anti-his antibody can bind Human IL-7, No Tag with an affinity constant of 4.18 nM as determined in SPR assay (Biacore T200).