

## Recombinant human IL-7R Alpha / CD127 protein, C-hFc (HEK293)

Catalog Number: bs-47126P

Concentration: >0.5 mg/ml

AA Seq: 21-236/459

Predicted MW: 51.6

Detected MW: Due to glycosylation, the protein migrates to 55-75 kDa based on Tris-Bis PAGE result.

Tags: C-hFc

Activity: Not tested

Endotoxin: <1.0 EU/μg as determined by LAL

Purity: >95% as determined by Tris-Bis PAGE; >95% as determined by SEC-HPLC

Purification: AC

Form: Lyophilized

Storage: Lyophilized from 0.22um filtered solution in PBS (pH7.4) with 5mM DTT. Normally 5% trehalose is added as protectant before Lyophilization.

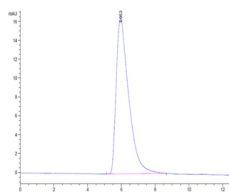
Stored at -70°C or -20°C. Avoid repeated freeze/thaw cycles.

**Background:** The protein encoded by this gene is a receptor for interleukine 7 (IL7). The function of this receptor requires the interleukin 2 receptor, gamma chain (IL2RG), which is a common gamma chain shared by the receptors of various cytokines, including interleukine 2, 4, 7, 9, and 15. This protein has been shown to play a critical role in the V(D)J recombination during lymphocyte development. This protein is also found to control the accessibility of the TCR gamma locus by STAT5 and histone acetylation. Knockout studies in mice suggested that blocking apoptosis is an essential function of this protein during differentiation and activation of T lymphocytes. The functional defects in this protein may be associated with the pathogenesis of the severe combined immunodeficiency (SCID).

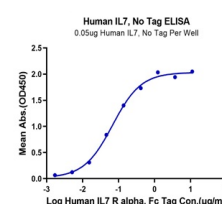
### VALIDATION IMAGES



Human IL-7R alpha /CD127 Protein on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Human IL-7R alpha /CD127 Protein is greater than 95% as determined by SEC-HPLC.



Immobilized Human IL7 at 0.5μg/ml (100μl/Well). Dose response curve for Human IL7 R alpha with the EC50 of 67.9ng/ml determined by ELISA.