Human IL-2 R alpha/CD25 Protein

Cat. No. CD5-HM225

Description

Source	Recombinant Human IL-2 R alpha/CD25 Protein is expressed from HEK293 with hFc (IgG1) tag at the C-terminus.
	It contains Glu22-Cys213.
Accession	P01589
Molecular Weight	The protein has a predicted MW of 47.68 kDa. Due to glycosylation, the protein migrates to 60-80 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

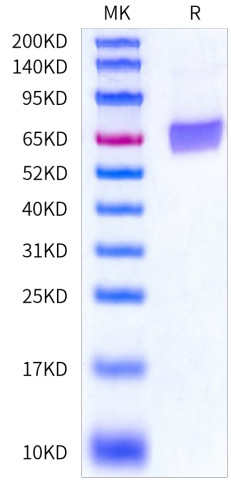
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for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

Human IL-2 receptor alpha (IL-2 R alpha), also known as Tac antigen and as CD25, was initially identified as a 55 kDa membrane glycoprotein that is capable of binding IL2.eceptor for interleukin-2. The receptor is involved in the regulation of immune tolerance by controlling regulatory T cells (TREGs) activity. TREGs suppress the activation and expansion of autoreactive T-cells.

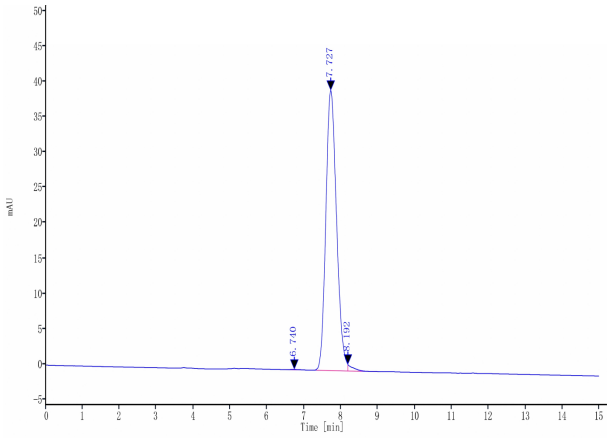
Assay Data

Bis-Tris PAGE



Human IL-2 R alpha on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



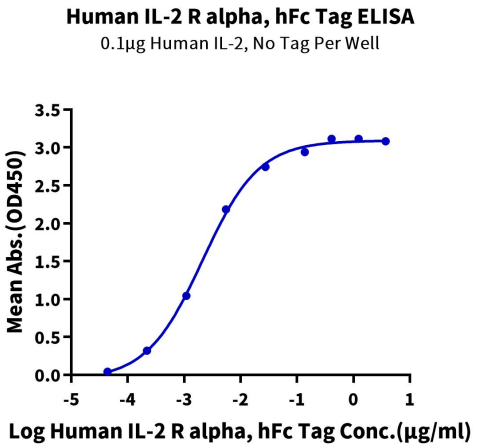
The purity of Human IL-2 R alpha is greater than 95% as determined by SEC-HPLC.

Human IL-2 R alpha/CD25 Protein

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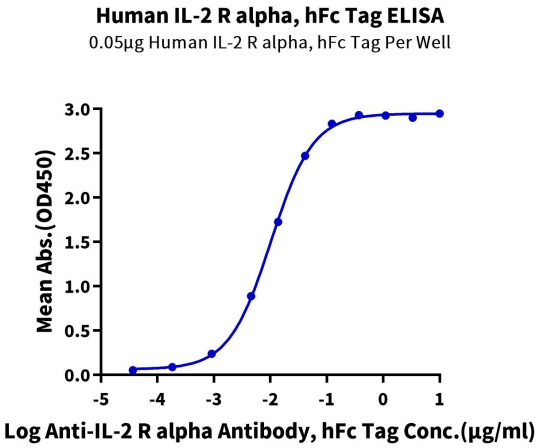
Assay Data

ELISA Data



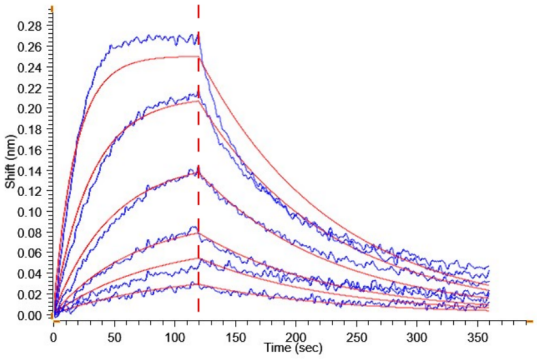
Immobilized Human IL-2, No Tag (Cat. IL2-HM001) at 1μg/ml (100μl/well) on the plate. Dose response curve for Human IL-2 R alpha, hFc Tag with the EC50 of 2.1ng/ml determined by ELISA.

ELISA Data



Immobilized Human IL-2 R alpha, hFc Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Anti-IL-2 R alpha Antibody, hFc Tag with the EC50 of 10.3ng/ml determined by ELISA.

BLI Data



Loaded Human IL-2 R alpha, hFc Tag on ProA-Biosensor can bind Human IL-2, No Tag (Cat. IL2-HM001) with an affinity constant of 10.10 nM as determined in BLI assay.

For Research Use Only