

Recombinant Human IL-2 R beta/CD122 (His-Avi Tag)

产品信息

产品名称	产品编号	规格
Recombinant Human IL-2 R beta/CD122 (His-Avi Tag)	93753ES20	20 µg
	93753ES60	100 µg
	93753ES76	500 µg
	93753ES80	1 mg

产品描述

Functional IL-2 receptors can exist in two affinity states on cell surfaces, the high affinity complex consisting of heterotrimers of the alpha, beta, and gamma chains, and the intermediate affinity complex comprising heterodimers of the beta and gamma chains. Individual beta chains and alpha chains exhibit low affinity IL-2 binding and the gamma chain alone does not bind IL-2. In addition to their involvement in IL-2 mediated signal transduction, both the beta chain and gamma chain have been shown to be required for IL-15 mediated signaling. IL-2 R beta is a member of the cytokine receptor superfamily. Human IL-2 R beta cDNA encodes a 551 amino acid residue precursor Type I membrane protein with a 26 residue signal peptide, a 214 residue extracellular region, a 25 residue transmembrane region and a 286 residue cytoplasmic domain. A soluble IL-2 R beta (IL-2 sR beta) has been identified in the culture supernatants of a human lymphoid cell line, YT, that displays IL-2 R beta. At present, the function of IL-2 sR beta is unclear. Recombinant human IL-2 sR beta binds IL-2 with low affinity and is not an effective IL-2 antagonist on cells displaying the high or intermediate affinity IL-2 signaling receptors. Nevertheless, IL-2 sR beta binds IL-15 with sufficient affinity to neutralize IL-15 biological activities.

产品性质

别名 (Synonyms)	CD122; IL-15 R beta; IL-2 R beta; IL-2R subunit beta; IL2RB; P70-75; p75; RP5-1170K4.6; IL-15 R β; IL-2 R β; IL-2R subunit β
Uniprot No.	NP_000869
表达区间及表达系统 (Source)	Recombinant Human IL-2 R beta/CD122 Protein is expressed from HEK293 Cells with His tag and Avi tag at the C-terminal. It contains Ala27-Asp239.
分子量(Molecular Weight)	The protein has a predicted MW of 27.5 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis PAGE result.
外观(Physical Appearance)	Sterile Filtered White lyophilized (freeze-dried) powder.
纯度 (Purity)	> 95% as determined by SDS-PAGE and HPLC
活性 (Activity)	1.SPR Data: Human IL-2 R beta, His Tag captured on CM5 Chip via anti-His antibody can bind Human IL-2, No Tag with an affinity constant of 0.25µM as determined in SPR assay 2.SPR Data: Human IL-2 R beta, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human IL-15, No Tag with an affinity constant of 5.9nM as determined in SPR assay.
内毒素 (Endotoxin)	< 1.0 EU per 1µg of the protein by the LAL method.
制剂 (Formulation)	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
复溶 (Reconstitution)	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.

运输与保存方法

冰袋运输。-20°C至-80°C保存，一年有效期。

复溶后，-20 至 -80°C，在未开封状态下保存 3-6 个月。复溶后，2-8°C 保存 2-7 天。

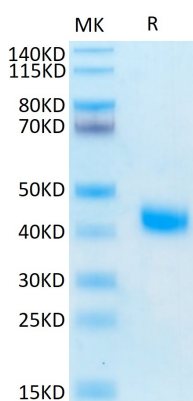
建议第一次使用时分装冻存，避免反复冻融。

注意事项

1. 避免反复冻融。
2. 为了您的安全和健康，请穿实验服并戴一次性手套操作。
3. 本产品仅作科研用途！

产品数据

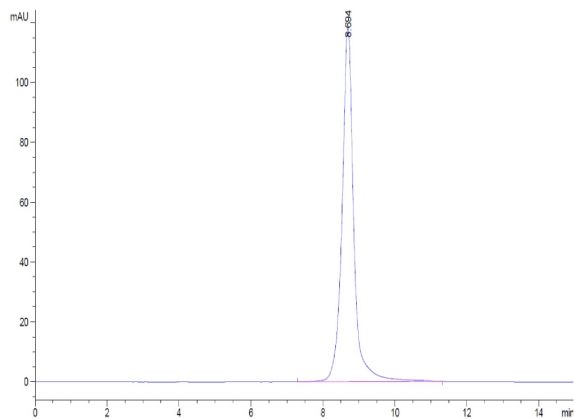
Tris-Bis PAGE



Human IL-2 R beta on Tris-Bis PAGE under reduced conditions.

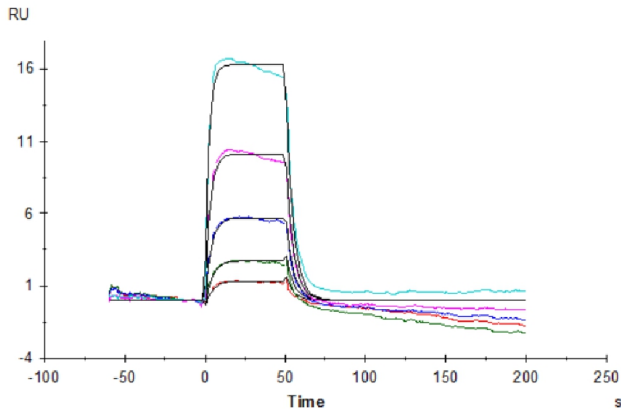
The purity is greater than 95%.

SEC-HPLC



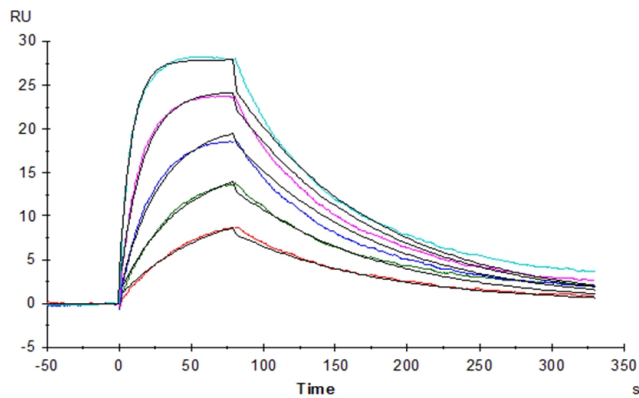
The purity of Human IL-2 R beta is greater than 95% as determined by SEC-HPLC.

SPR Data



Human IL-2 R beta, His Tag captured on CM5 Chip via anti-His antibody can bind Human IL-2, No Tag with an affinity constant of $0.25\mu\text{M}$ as determined in SPR assay (Biacore T200).

SPR Data



Human IL-2 R beta, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human IL-15, No Tag with an affinity constant of 5.9nM as determined in SPR assay (Biacore T200).