

Datasheet for ABIN7274963

IL-7 Protein

6 Images

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Overview

Quantity:	100 µg
Target:	IL-7 (IL7)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Sequence:	Asp26-His177
Purity:	> 95% as determined by Tris-Bis PAGE, > 95% as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human IL-7 at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human IL-7R alpha, hFc Tag with the EC50 of 0.21µg/ml determined by ELISA. The affinity constant of 22.66 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	IL-7 (IL7)
Alternative Name:	IL-7 (IL7 Products)
Background:	IL7, Interleukin-7, IL-7, Lymphopoietin-1, PBGF, Interleukin-7 (IL7) plays a nonredundant role in T cell survival and homeostasis, which is illustrated in the severe T cell lymphopenia of IL7-deficient mice, or demonstrated in animals or humans that lack expression of either the IL7Ra

Target Details

or γ c chain, the two subunits that constitute the functional IL7 receptor.

Molecular Weight: 17.5 kDa same as Tris-Bis PAGE result.

UniProt: [P13232](#)

Pathways: [JAK-STAT Signaling](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Centrifuge tubes before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{mL}$ is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.

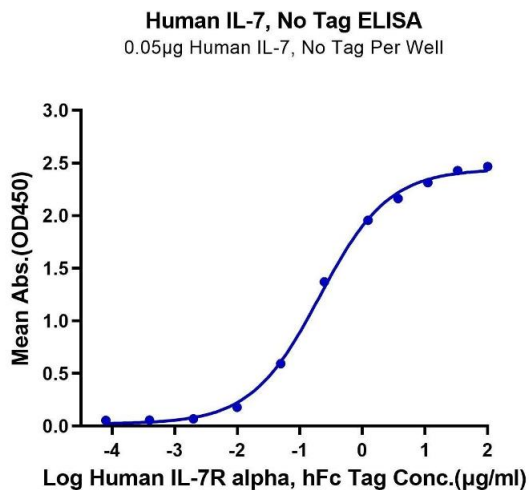
Buffer: Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.

Storage: 4 $^{\circ}\text{C}$, -80 $^{\circ}\text{C}$

Storage Comment: Reconstituted protein stable at -80 $^{\circ}\text{C}$ for 12 months, 4 $^{\circ}\text{C}$ for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

Expiry Date: 12 months

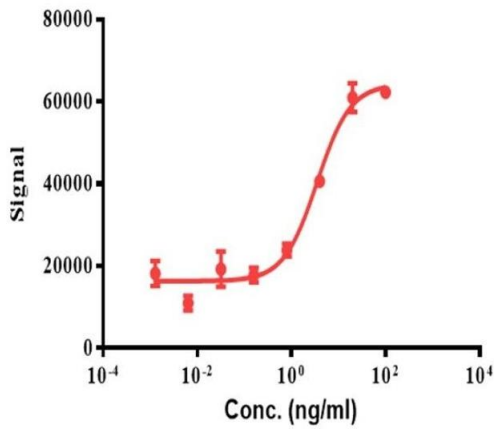
Images



ELISA

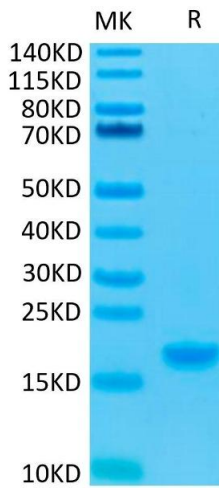
Image 1. Immobilized Human IL-7 at 0.5 $\mu\text{g}/\text{mL}$ (100 $\mu\text{L}/\text{Well}$) on the plate. Dose response curve for Human IL-7R alpha, hFc Tag with the EC50 of 0.21 $\mu\text{g}/\text{mL}$ determined by ELISA.

IL-7 Stimulation PHA-pretreated PBMC proliferation assay



Proliferation Assay

Image 2. Human IL-7, No Tag stimulates proliferation of PHA-pretreated human peripheral blood mononuclear cell (PBMC) with the EC50 for this effect is 3.5 ng/mL.



SDS-PAGE

Image 3. Human IL-7 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN7274963.