antibodies .- online.com







IL-15 Protein





Overview

Quantity:	100 μg
Target:	IL-15 (IL15)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Sequence:	Asn49-Ser162
Purity:	> 95% as determined by Tris-Bis PAGE,> 95% as determined by SEC-HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human IL-15 at 1µg/ml (100µl/Well) on the plate. Dose response curve for Human
	IL-15RA, His Tag with the EC50 of 12.1ng/ml determined by ELISA. The affinity constant of
	0.056 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	IL-15 (IL15)
Alternative Name:	IL-15 (IL15 Products)
Background:	L15, IL-15, IL-15MGC9721, Interleukin-15,Interleukin 15 (IL-15) is a widely expressed 14 kDa cytokine that is structurally and functionally related to IL-2 and plays an important role in many
	immunological diseases.IL-15 is a cytokine that stimulates the proliferation of T-lymphocytes.

Target Details

	Stimulation by IL15 requires interaction of IL15 with components of the IL2 receptor, including IL2RB and probably IL2RG but not IL2RA.
Molecular Weight:	12.8 kDa same as Tris-Bis PAGE result.
UniProt:	P40933
Pathways:	JAK-STAT Signaling, Glycosaminoglycan Metabolic Process

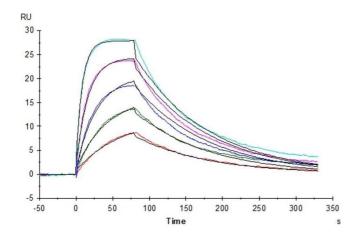
Application Details

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Handling

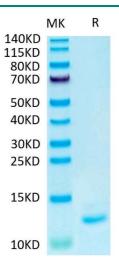
Format:	Lyophilized
Reconstitution:	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 μ g/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from $0.22\mu m$ filtered solution in 20 mM Tris, 150 mM NaCl (pH 8.0). Normally 5 % trehalose is added as protectant before lyophilization.
Storage:	4 °C,-80 °C
Storage Comment:	Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

Images



Surface Plasmon Resonance

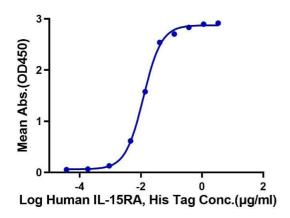
Image 1. Human IL-2 R beta, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human IL-15, No Tag with an affinity constant of 5.9nM as determined in SPR assay (Biacore T200).



SDS-PAGE

Image 2. Human IL-15 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Human IL-15, No Tag ELISA 0.1µg Human IL-15, No Tag Per Well



ELISA

Image 3. Immobilized Human IL-15 at $1 \,\mu\text{g/mL}$ ($100 \,\mu$ L/Well) on the plate. Dose response curve for Human IL-15RA, His Tag with the EC50 of 12.1 ng/mL determined by ELISA.

Please check the product details page for more images. Overall 5 images are available for ABIN7274953.