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Datasheet for ABIN7274880

IL-18 Protein

5 Images

Overview

Quantity:	100 µg
Target:	IL-18 (IL18)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Sequence:	Tyr37-Asp193
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-18 at 5µg/ml (100µl/Well) on the plate. Dose response curve for Human IL-18BP, hFc Tag with the EC50 of 18.2ng/ml determined by ELISA. The affinity constant of 1.21nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	IL-18 (IL18)
Alternative Name:	IL-18 (IL18 Products)
Background:	IL-18, IL18, IGIF, IL-1F4, IL-1 gamma, IL1F4, IL-1g, Interleukin 1, Interleukin (IL)-18 was originally discovered as a factor that enhanced IFN-γ production from anti-CD3-stimulated Th1 cells, especially in the presence of IL-12. Upon stimulation with Ag plus IL-12, naive T cells develop

Target Details

into IL-18 receptor (IL-18R) expressing Th1 cells, which increase IFN- γ production in response to IL-18 stimulation.

Molecular Weight: 18.2 kDa same as Tris-Bis PAGE result.

UniProt: [Q14116](#)

Pathways: [Cellular Response to Molecule of Bacterial Origin](#), [Activated T Cell Proliferation](#), [Cancer Immune Checkpoints](#), [Inflammasome](#)

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.

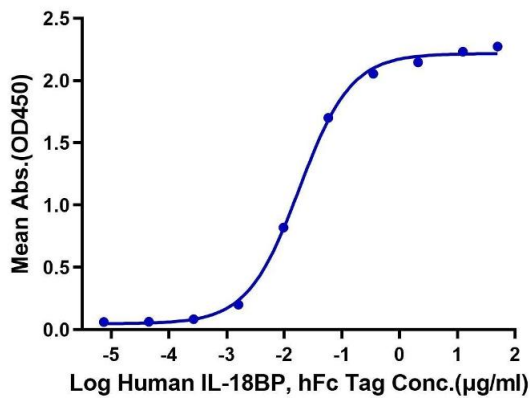
Buffer: Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.

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

Human IL-18, No Tag ELISA
0.5µg Human IL-18, No Tag Per Well

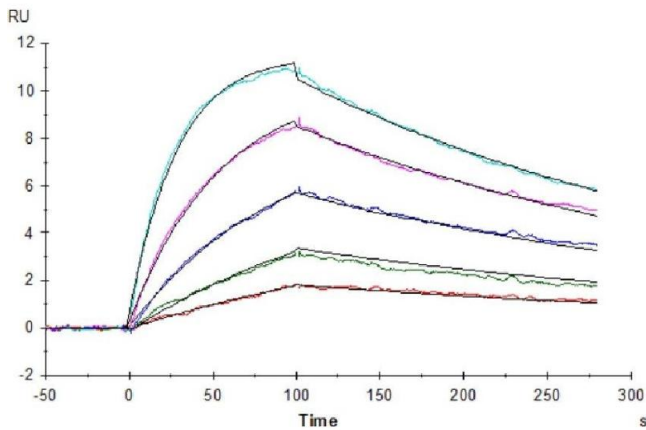


ELISA

Image 1. Immobilized Human IL-18 at 5 µg/mL (100 µ L/Well) on the plate. Dose response curve for Human IL-18BP, hFc Tag with the EC50 of 18.2 ng/mL determined by ELISA.

SDS-PAGE

Image 2. Human IL-18 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Surface Plasmon Resonance

Image 3. Human IL-18 R1, His tag captured on CM5 Chip via anti-His antibody can bind Human IL-18, No tag with an affinity constant of 1.21nM as determined in SPR assay (Biacore T200).

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN7274880.