

Human IL-18 R1/CD218a Protein

Cat. No. IL8-HM2R1

Description

| | |
|-------------------------|---|
| Source | Recombinant Human IL-18 R1/CD218a Protein is expressed from HEK293 with hFc tag at the C-terminus. It contains Ala19-Arg329. |
| Accession | AAH69575.1 |
| Molecular Weight | The protein has a predicted MW of 62.52 kDa. Due to glycosylation, the protein migrates to 75-95 kDa based on Bis-Tris PAGE result. |
| Endotoxin | Less than 1 EU per µg by the LAL method. |
| Purity | > 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC |

Formulation and Storage

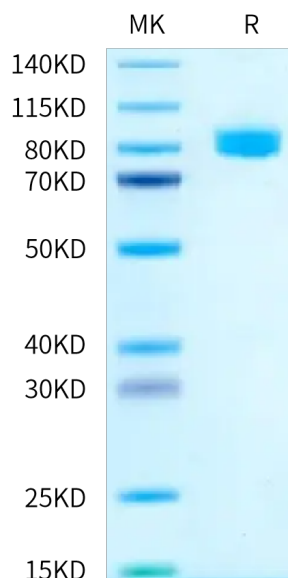
| | |
|-----------------------|---|
| Formulation | Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for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

Interleukin-18 (IL-18) is a member of the interleukin-1 family of cytokines produced constitutively by different cell types and by adipose tissue. 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, naïve T cells develop into IL-18 receptor (IL-18R) expressing Th1 cells, which increase IFN-γ production in response to IL-18 stimulation.

Assay Data

Bis-Tris PAGE



Human IL-18 R1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

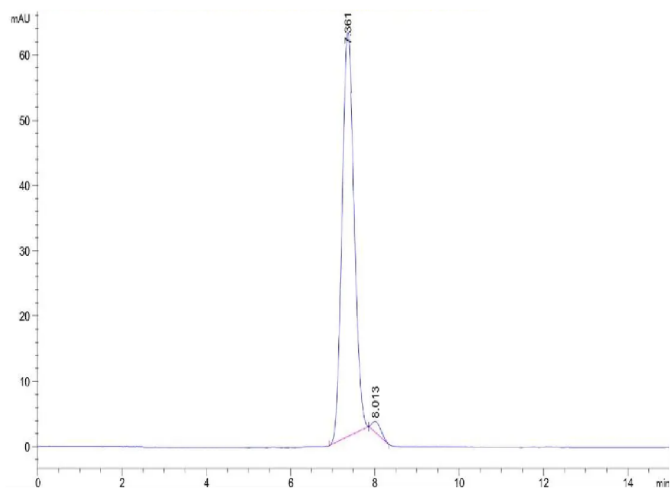
SEC-HPLC

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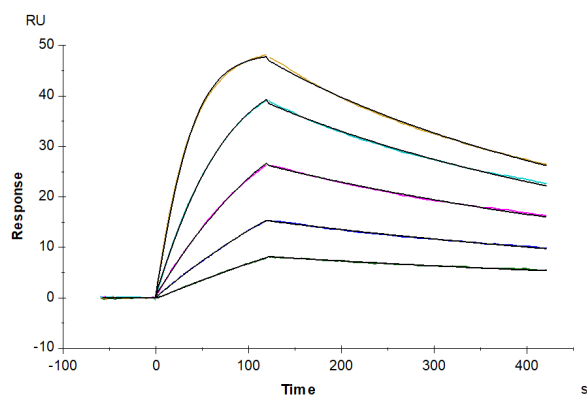


Assay Data



The purity of Human IL-18 R1 is greater than 95% as determined by SEC-HPLC.

SPR Data



Human IL-18 R1, hFc Tag captured on CM5 Chip via Protein A can bind Human IL-18, No Tag with an affinity constant of 0.73 nM as determined in SPR assay (Biacore T200).