

# Human IL-36 alpha/IL-1F6 Protein

Cat. No. ILA-HE036



## Description

|                  |                                                                                    |
|------------------|------------------------------------------------------------------------------------|
| Source           | Recombinant Human IL-36 alpha/IL-1F6 Protein is expressed from E.coli without tag. |
|                  | It contains Lys6-Phe158.                                                           |
| Accession        | Q9UHA7                                                                             |
| Molecular Weight | The protein has a predicted MW of 17.11 kDa same as 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

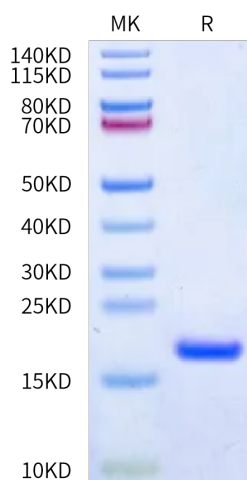
|                |                                                                                                                                                                                                                         |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Formulation    | Lyophilized from 0.22 µm filtered solution in 20mM Tris, 100mM NaCl, 1mM TCEP, 0.02% Tween-20 (pH 8.0). 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

Within the IL-1 superfamily, IL-36 plays a pivotal role in both innate and adaptive immune responses. Of the four IL-36 isoforms, three have agonist activity (IL-36α, IL-36β, IL-36γ) and the fourth has antagonist activity (IL-36 receptor antagonist [IL-36Ra]). All IL-36 isoforms bind to the IL-36 receptor (IL-36R). Binding of IL-36α/β/γ to the IL-36R recruits the IL-1 receptor accessory protein (IL-1RAcP) and activates downstream signalling pathways mediated by nuclear transcription factor kappa B and mitogen-activated protein kinase signalling pathways.

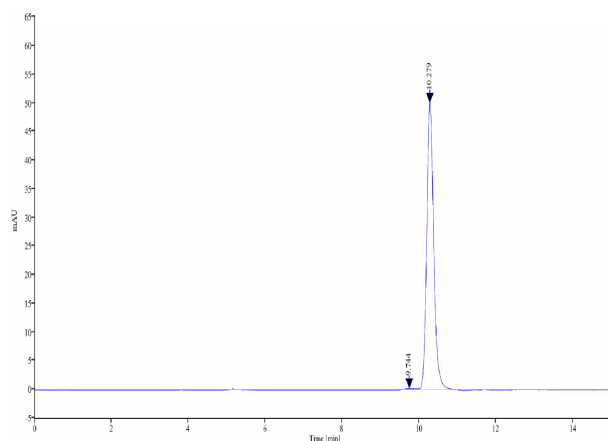
## Assay Data

### Bis-Tris PAGE



Human IL-36 alpha on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of Human IL-36 alpha is greater than 95% as determined by SEC-HPLC.