# Human ITPRIPL1/CD3L1 Protein, Ultra Low Endotoxin

**Cat. No.** CD3-HM1L1-UL

## Description

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|---|---|
| **Source** | Recombinant Human ITPRIPL1/CD3L1 Protein is expressed from HEK293 with His tag at the C-terminus. |
| | It contains His25-Gly103. |
| **Accession** | Q6GPH6-1 |
| **Molecular Weight** | The protein has a predicted MW of 10.91 kDa. Due to glycosylation, the protein migrates to 13-15 kDa based on Bis-Tris PAGE result. |
| **Endotoxin** | Less than 0.01 EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Bis-Tris PAGE |
| | > 95% as determined by HPLC |

## Formulation and Storage

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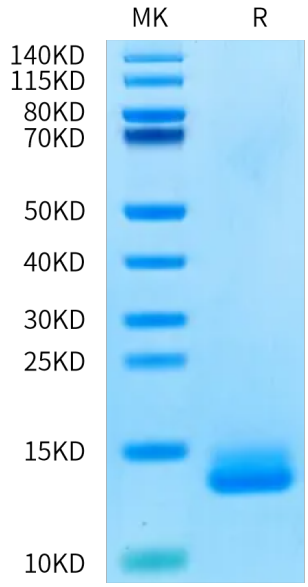
| **Formulation** | Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions. |
|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

Inositol 1,4,5-trisphosphate receptor-interacting protein-like 1 (ITPRIPL1), a single-pass type I membrane protein with uncharacterized functions, exhibits normal testis-enriched expression and widespread overexpression in various human cancers. ITPRIPL1 possesses a distinct ECD and is particularly prevalent in tumors exhibiting low or no PD-L1 expression. ITPRIPL1 functions as an inhibitory ligand of CD3ε, and its expression inhibits T cells in the tumor microenvironment.

## Assay Data

**Bis-Tris PAGE**




Human ITPRIPL1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

**SEC-HPLC**

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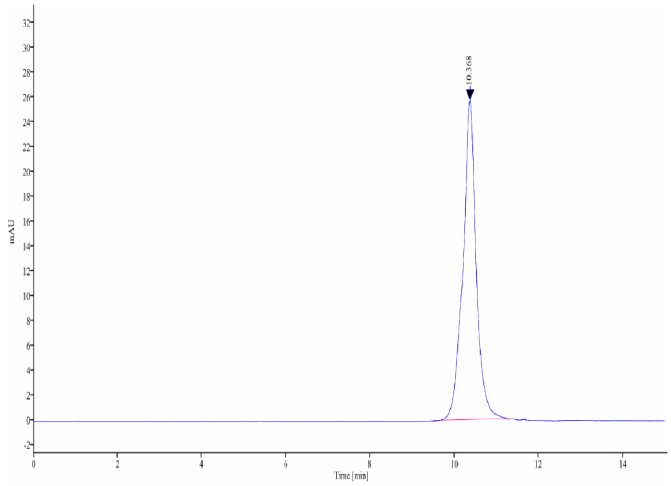


The purity of Human ITPRIPL1 is greater than 95% as determined by SEC-HPLC.