

# Human CD3D/CD3 delta Protein, Ultra Low Endotoxin

Cat. No. CDD-HM101-UL

## Description

<b>Source</b>	Recombinant Human CD3D/CD3 delta Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Phe22-Ala105.
<b>Accession</b>	P04234-1
<b>Molecular Weight</b>	The protein has a predicted MW of 10.4 kDa. Due to glycosylation, the protein migrates to 17-30 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.01 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

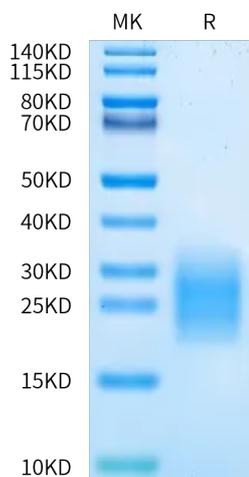
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage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

T-cell surface glycoprotein CD3 delta chain, also known as CD3D, is a single-pass type I membrane protein. In immunology, the CD3 (cluster of differentiation 3) T cell co-receptor helps to activate both the cytotoxic T cell (CD8 naive T cells) and also T helper cells (CD4 naive T cells). It consists of a protein complex and is composed of four distinct chains. In mammals, the complex contains a CD3γ chain, a CD3δ chain, and two CD3ε chains.

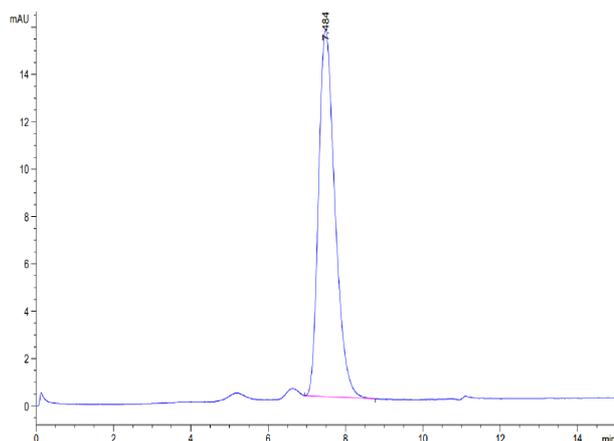
## Assay Data

### Bis-Tris PAGE



Human CD3 delta on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of Human CD3 delta is greater than 95% as determined by SEC-HPLC.