

# Human CD96/TACTILE Protein

Cat. No. CD9-HM396

## Description

|                         |  |
|-------------------------|--|
| <b>Source</b>           | Recombinant Human CD96/TACTILE Protein is expressed from HEK293 with mFc (IgG1) tag at the C-Terminus. It contains Val22-Met503.     |
| <b>Accession</b>        | P40200-2   |
| <b>Molecular Weight</b> | The protein has a predicted MW of 79.8 kDa. Due to glycosylation, the protein migrates to 120-160 kDa based on Bis-Tris PAGE result. |
| <b>Endotoxin</b>        | Less than 1EU per $\mu\text{g}$ by the LAL method.   |
| <b>Purity</b>           | > 95% as determined by Bis-Tris PAGE<br>> 95% as determined by HPLC  |

## Formulation and Storage

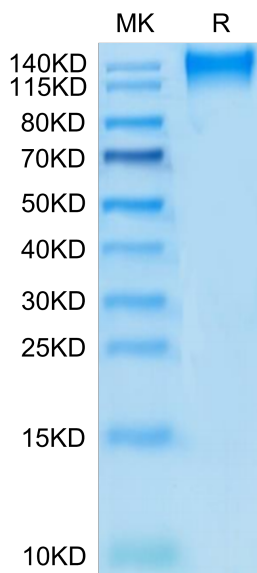
|                       |   |
|-----------------------|---|
| <b>Formulation</b>    | Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.  |
| <b>Reconstitution</b> | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.  |
| <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

The receptors CD96 and TIGIT are expressed on the surface of T and natural killer (NK) cells, and recent studies suggest both play important inhibitory roles in immune function. CD96 has been shown to modulate immune cell activity in mice, with Cd96<sup>-/-</sup> mice displaying hypersensitive NK-cell responses to immune challenge and significant tumor resistance. The counterbalance between the putative inhibitory CD96 and TIGIT receptors and the activating receptor, CD226, offers unique strategies for immuno-oncology drug development.

## Assay Data

### Bis-Tris PAGE



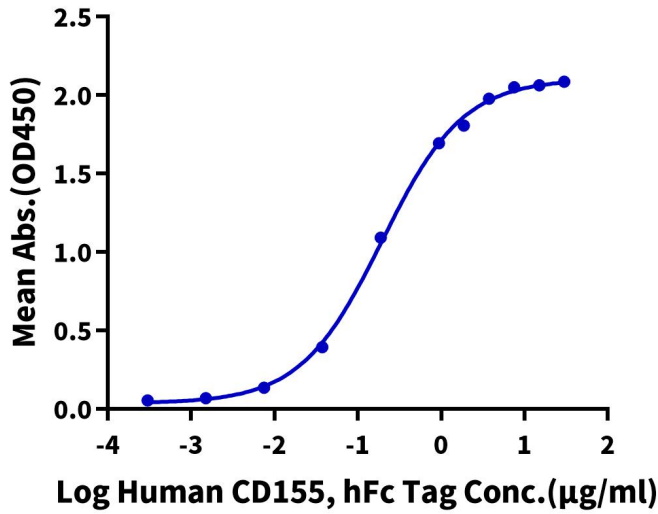
Human CD96 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

Assay Data

**Human CD96, mFc Tag ELISA**

0.5µg Human CD96, mFc Tag Per Well

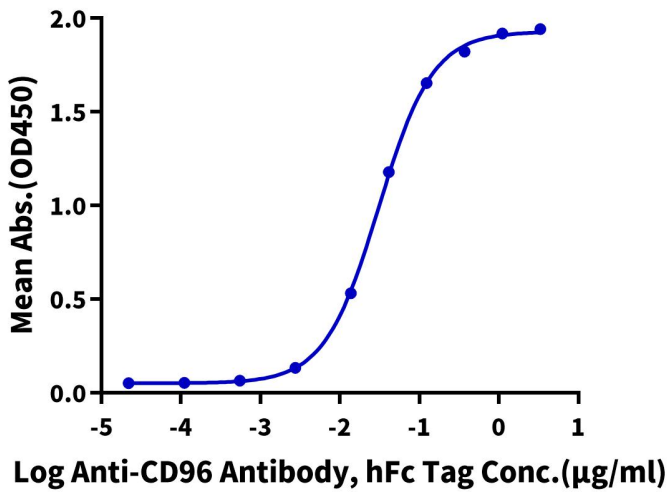


Immobilized Human CD96, mFc Tag at 5µg/ml (100µl/Well) on the plate. Dose response curve for Human CD155, hFc Tag with the EC50 of 0.19µg/ml determined by ELISA (QC Test).

ELISA Data

**Human CD96, mFc Tag ELISA**

0.2µg Human CD96, mFc Tag Per Well



Immobilized Human CD96, mFc Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Anti-CD96 Antibody, hFc Tag with the EC50 of 31.8ng/ml determined by ELISA.