

# Human CD28H/IGPR-1 Protein

Cat. No. CD8-HM18H

## Description

<b>Source</b>	Recombinant Human CD28H/IGPR-1 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Leu23-Gly150.
<b>Accession</b>	Q96BF3-1
<b>Molecular Weight</b>	The protein has a predicted MW of 15.1 kDa. Due to glycosylation, the protein migrates to 42-52 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per ug by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

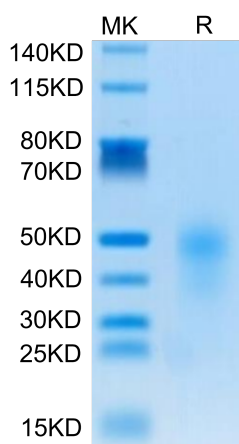
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein 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

CD28H is constitutively expressed on all naive T cells. Repetitive antigenic exposure, however, induces a complete loss of CD28H on many T cells, and CD28H negative T cells have a phenotype of terminal differentiation and senescence. After extensive screening in a receptor array, a B7-like molecule, B7 homologue 5 (B7-H5), was identified as a specific ligand for CD28H.

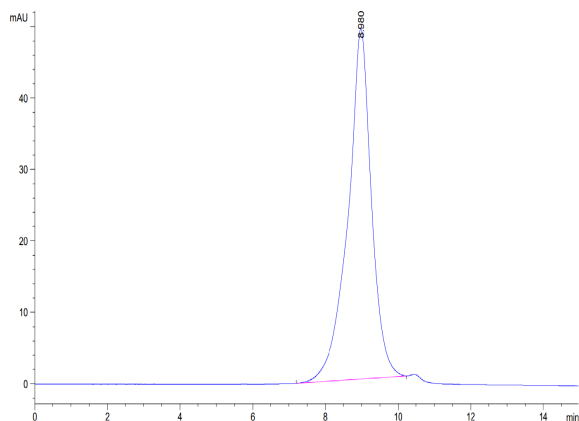
## Assay Data

### Bis-Tris PAGE



Human CD28H on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



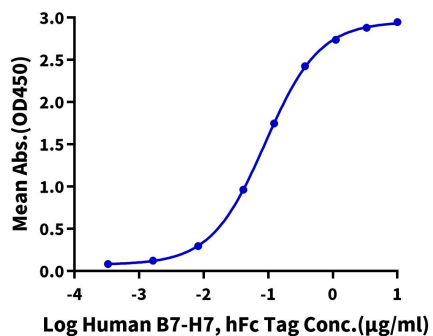
The purity of Human CD28H is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Human CD28H, His Tag ELISA**

0.5µg Human CD28H, His Tag Per Well



Immobilized Human CD28H, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human B7-H7, hFc Tag with the EC50 of 90.0ng/ml determined by ELISA.