

# Human CRTAM Protein

Cat. No. CRM-HM101

## Description

<b>Source</b>	Recombinant Human CRTAM Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ser18-Gly287.
<b>Accession</b>	O95727-1
<b>Molecular Weight</b>	The protein has a predicted MW of 31.1 kDa. Due to glycosylation, the protein migrates to 55-70 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## 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 24 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

Class-I Restricted T Cell-Associated Molecule (CRTAM) is a protein that is expressed after T cell activation. The interaction of CRTAM with its ligand, nectin-like 2 (Nectin2), is required for the efficient production of IL-17, IL-22, and IFN $\gamma$  by murine CD4 T cells, and it plays a role in optimal CD8 T and NK cell cytotoxicity. CRTAM promotes the pro-inflammatory cytokine profile; therefore, it may take part in the immunopathology of autoimmune diseases such as diabetes type 1 or colitis.

## Assay Data

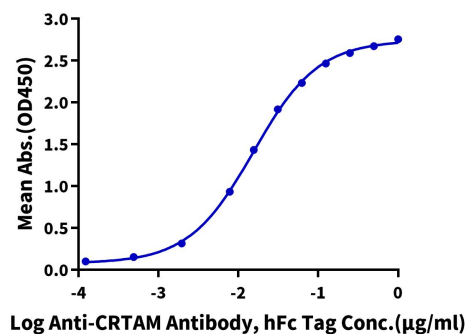
### Bis-Tris PAGE



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

### ELISA Data

**Human CRTAM, His Tag ELISA**  
0.1µg Human CRTAM, His Tag Per Well



Immobilized Human CRTAM, His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Anti-CRTAM Antibody, hFc Tag with the EC50 of 15.5ng/ml determined by ELISA.