

CRTAM active protein

CRTAM Protein, Human, Recombinant (His Tag)

CATALOG #
AAA258000

HOST
HEK293 Cells

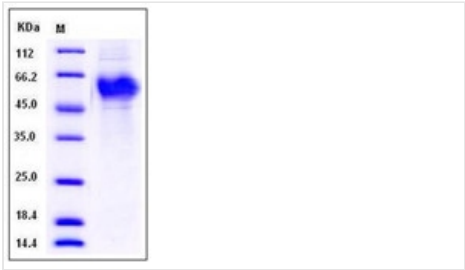
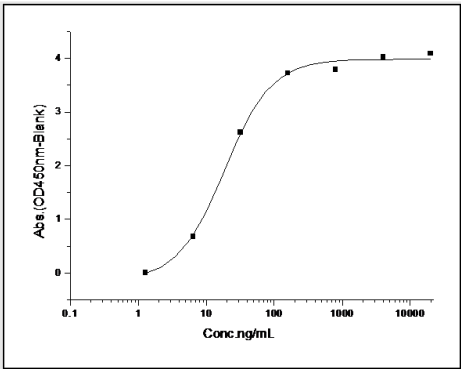
PRODUCT SYNONYMS

CRTAM; CRTAM Protein; Human; Recombinant (His Tag); Human CRTAM Protein (His Tag); CD355 Protein; cytotoxic and regulatory T cell molecule; CRTAM active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>94% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Ser28 6
Species	Human
Activity	Measured by its binding ability in a functional ELISA. Immobilized human CADM1 at 2ug/ml (100uL/well) can bind biotinylated human CRTAM with a linear range of 12.5-400ng/mL.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Ser 18
Tag	C-His
Protein Construction	A DNA sequence encoding the human CRTAM (NP_062550.2) extracellular domain (Met 1-Ser 286) was expressed, with a polyhistidine tag at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized human CADM1 at 2 ug/ml (100 ul/well) can bind biotinylated human CRTAM with a linear range of 12.5-400 ng/ml.

ADDITIONAL INFORMATION

Related Product Information for CRTAM active protein	Background: Cytotoxic and regulatory T-cell molecule, also known as Class-I MHC-restricted T-cell-associated molecule and CRTAM, is a single-pass type I membrane protein which belongs to thenectin family.CRTAM contains onelg-like C2-type (immunoglobulin-like) domain and onelg-like V-type (immunoglobulin-like) domain. In the immune system, the expression of CRTAM is restricted to activated class-I MHC-restricted cells, including NKT and CD8 cells. It is strongly expressed in spleen, thymus, small intestine, peripheral blood leukocyte, and in purkinje neurons in cerebellum. It is expressed at much lower levels in testis, ovary, colon, lung and lymphoid tissues. CRTAM is a member of the immunoglobulin superfamily that complies with the structural characteristics of the JAM family of proteins and is phylogenetically more closely related to nectin-like proteins. It is a molecule involved in epithelial cell adhesion. CRTAM is sensitive to intermediate filament disruption and treatment of monolayers with soluble CRTAM enhances cell-cell dissociation and lowers transepithelial electrical resistance. CRTAM may also induce retention by binding to CD8+ dendritic cells (DCs) at the late stage of activation before proliferation.
References	Garay, E. et al., 2010, J Cell Biochem. 111 (1):111-22. Medina-C.O. et al., 2010, Dev Comp Immunol. 34 (2):196-202. Takeuchi, A. et al., 2009, J Immunol.183 (7):4220-8. Valle-Rios,R. et al., 2009, Mol Immunol. 46 (16): 3379-87.

NCBI AND UNIPROT INFORMATION

NCBI GI #	51593098
NCBI GeneID	56253
NCBI Accession #	NP_062550.2
NCBI GenBank Nucleotide #	NM_019604.2
UniProt Accession #	O95727; Q59EI1; Q6IRX2
Molecular Weight	44,641 Da
NCBI Official Full Name	cytotoxic and regulatory T-cell molecule
NCBI Official Synonym Full Names	cytotoxic and regulatory T cell molecule
NCBI Official Symbol	CRTAM
NCBI Official Synonym Symbols	CD355
NCBI Protein Information	cytotoxic and regulatory T-cell molecule; class I MHC restricted T cell associated molecule; class-I MHC-restricted T cell associated molecule; class-I MHC-restricted T-cell-associated molecule
UniProt Protein Name	Cytotoxic and regulatory T-cell molecule
UniProt Gene Name	CRTAM
UniProt Entry Name	CRTAM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/crtam/258000>