CRTAMV/CD355 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CRTAMV/CD355, Recombinant Protein
Full Product Name	Recombinant Human CRTAMV/CD355 Protein (C-6His)
Product Gene Name	CRTAMV/CD355 recombinant protein
Product Synonym Names	Cytotoxic and Regulatory T-Cell Molecule; Class-I MHC-Restricted T-Cell-Associated Molecule; CD355; CRTAM
Host	Human Cells
Form/Format	Lyophilized from a 0.2 mum filtered solution of 20mM PB, 150mM NaCl, pH 7.2.
Purity/Purification	>95% as determined by reducing SDS-PAGE.
Preparation and Storage	Lyophilized protein should be stored at < -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.
Molecular Weight	Molecular Mass: 31.0 kDa Actual Protein Molecular Mass: 64 kDa
Sequence Positions	Ser18-Ser286
3D Structure	ModBase 3D Structure for O95727
Species	Human
Endotoxin	<1.0 EU per ug as determined by LAL test.
Fusion Tag	C-6His
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CRTAMV/CD355 recombinant protein	Cytotoxic and Regulatory T-Cell Molecule (CRTAM) is a member of Nectin family under the immunoglobulin superfamily that is expressed by activated CD8+ and NK T cells. CRTAM is found in spleen, thymus, small intestine, peripheral blood, and it is highly expressed by Purkinje cells of the cerebellum. CRTAM is a type I transmembrane glycoprotein containing one Ig-like C2-type domain and one Ig-like V-type domain in its extracellular domain, while its cytoplasmic region shows a potential class I PDZ domain. CRTAM is expressed as a homodimer on the cell surface but does not show homotypic binding in trans. The high affinity of CRTAM/IGSF4 adhesion allows CRTAM to disrupt IGSF4 homotypic interactions. IGSF4 and T cell receptor coengagement of CD8+ cells expressiong CRTAM induces increased IFNgamma or IL-22 production.
Other Notes	Small volumes of CRTAMV/CD355 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CRTAMV/CD355 purchase	MBS2552534 is a recombinant protein targeting CRTAMV/CD355. Also known as Recombinant Human CRTAMV/CD355 Protein (C-6His). Host: Human Cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CRTAMV/CD355. It may not necessarily be applicable to this product.

NCBI GI #	755571554
NCBI GeneID	56253
NCBI Accession #	NP_001291711.1

UniProt Primary Accession #	O95727
UniProt Secondary Accession #	Q59EI1; Q6IRX2
UniProt Related Accession #	O95727
GenBank Nucleotide #	NM_001304782.1
NCBI Official Full Name	cytotoxic and regulatory T-cell molecule isoform 2
NCBI Official Synonym Full Names	cytotoxic and regulatory T cell molecule
NCBI Official Symbol	CRTAM
NCBI Official Synonym Symbols	CD355
UniProt Protein Name	Cytotoxic and regulatory T-cell molecule
UniProt Synonym Protein Names	Class-I MHC-restricted T-cell-associated molecule; CD_antigen: CD355
UniProt Gene Name	CRTAM
NCBI Protein Information	cytotoxic and regulatory T-cell molecule
NCBI Summary for CRTAMV/CD355	The CRTAM gene is upregulated in CD4 (see MIM 186940)-positive and CD8 (see CD8A; MIM 186910)-positive T cells and encodes a type I transmembrane protein with V and C1-like Ig domains (Yeh et al., 2008 [PubMed 18329370]).[supplied by OMIM, Feb 2009]
UniProt Comments for CRTAMV/CD355	Interaction with CADM1 promotes natural killer (NK) cell cytotoxicity and interferon-gamma (IFN-gamma) secretion by CD8+ cells in vitro as well as NK cell-mediated rejection of tumors expressing CADM3 in vivo.
Research Articles on CRTAMV/CD355	**1.** These results reveal that CRTAM is critical to instruct the differentiation of CD4(+)CTL through the induction of Eomes and CTL-related gene.
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