



[Go to Product page](#)

Datasheet for ABIN1096449
CRTAM Protein (AA 18-286) (His tag)

Overview

Quantity:	50 µg
Target:	CRTAM
Protein Characteristics:	AA 18-286
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CRTAM protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CRTAMV/CD355 (C-6His)
Sequence:	SLTNHTETIT VEEGQTLTLK CVTSLRKNSS LQWLTPSGFT IFLNEYVPLK NSKYQLLHHS ANQLSITVPN VTLQDEGVYK CLHYSDSVST KEVKVIVLAT PFKPILEASV IRKQNGEEHV VLMCSTMRSK PPPQITWLLG NSMEVSGGTL HEFETDGKKC NTTSTLIHT YGKNSTVDCI IRHRGLQGRK LVAPFRFEDL VTDEETASDA LERNLSSQD PQQPTSTVSV TEDSSTSEID KEEKEQTTQD PDLTTEANPQ YLGLARKKSV DHHHHHH
Characteristics:	Recombinant Human Cytotoxic and Regulatory T-Cell Molecule/CRTAM is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (Ser18-Ser286) of Human CRTAM fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	CRTAM
Alternative Name:	crtam (CRTAM Products)
Sub Type:	Fusionprotein
Background:	<p>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 expressing CRTAM induces increased IFNγ or IL-22 production.</p> <p>Alternative Names: Cytotoxic and Regulatory T-Cell Molecule, Class-I MHC-Restricted T-Cell-Associated Molecule, CD355, CRTAM</p>
Molecular Weight:	30.99 kDa
UniProt:	O95727
Pathways:	Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Activated T Cell Proliferation

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 μg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 μ m filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C

Handling

Storage Comment: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.
Reconstituted protein solution can be stored at 4-7°C for 2-7 days.
Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 3 months