

Active Recombinant Monkey CRTAM Protein, Fc-tagged

Cat. No. CRTAM-6744C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cynomolgus CRTAM, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Ser 18 - Gly 287 (Accession # XP_005580021.1). This protein carries a human IgG1 Fc tag at the C-terminus. Predicted N-terminus: Ser 18
Species	Monkey
Source	HEK293
ProteinLength	18-287 aa
Description	Class I-restricted T cell-associated molecule (CRTAM), a member of nectin family and the immunoglobulin superfamily, is also known as cytotoxic and regulatory T-cell molecule, which is expressed by activated CD8+ and NK T cells. CRTAM is found in spleen, thymus, small intestine, peripheral blood, and surprisingly, in brain where it is highly expressed by Purkinje cells of the cerebellum. The high affinity of CRTAM/IGSF4 adhesion allows CRTAM to disrupt IGSF4 homotypic interactions (3 - 5). IGSF4 and T cell receptor co-engagement of CRTAM-expressing CD8+ cells induces increased IFN-gamma or IL-22 production (3, 4). Furthermore, a role in cancer surveillance through NK cell-mediated rejection of IGSF4-expressing tumors has been proposed.
Form	Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 with trehalose as protectant.
Bio-activity	Immobilized Human CADM1, His Tag at 5

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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	μg/mL (100 μL/well) can bind Cynomolgus CRTAM, Fc Tag with a linear range of 0.6-10 ng/mL.
Molecular Mass	The protein has a calculated MW of 56.6 kDa. The protein migrates as 66-95 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CRTAM cytotoxic and regulatory T cell molecule [<i>Macaca fascicularis</i> (crab-eating macaque)]
Official Symbol	CRTAM
Synonyms	CRTAM; cytotoxic and regulatory T cell molecule; cytotoxic and regulatory T-cell molecule
Gene ID	102125896

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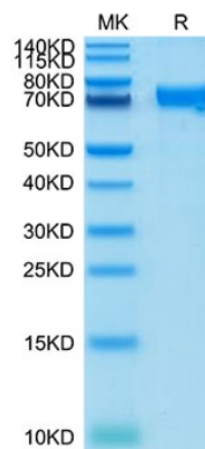
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mRNA Refseq XM_005579964

Protein Refseq XP_005580021

UniProt ID A0A2K5TKL4

SDS-PAGE.



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