

Active Recombinant Mouse Cytotoxic And Regulatory T Cell Molecule, Fc-tagged

Cat. No. Crtam-5613M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Crtam protein was expressed in Murine myeloma cell line with the Fc part of human IgG1 Pro100-Lys330 (C-terminus) and Ala17-Ser284 (N-terminus).
Species	Mouse
Source	Mammalian Cells
Protein Length	17-284 a.a.
Description	Crtam (Class I restricted T cell associated molecule) is a member of the nectin family of the immunoglobulin superfamily. It is expressed by activated CD8+ and NK T cells. NK activation receptor engagement, but not cytokines, also induces Crtam expression on NK 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.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Ala17
Molecular Weight	56.1 kDa
Activity	Measured by its binding activity in a functional ELISA. Galiberet, L. et al. (2005) J. Biol. Chem. 280:21955. Immobilized rmCrtam/Fc Chimera at 2 µg/mL (100 µL/well) can

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

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

 45-1 Ramsey Road, Shirley, NY 11967, USA

	bind rmlGSF4A with a linear range of 0.15-10 µg/mL
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	90 kDa, reducing conditions
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Crtam cytotoxic and regulatory T cell molecule [Mus musculus]
Official Symbol	Crtam
Synonyms	Crtam; cytotoxic and regulatory T cell molecule; MGC141606, MGC141607; cytotoxic and regulatory T-cell molecule; class I-restricted T cell-associated molecule; class-I MHC-restricted T-cell-associated molecule; CD355
Gene ID	54698
mRNA Refseq	NM_019465
Protein Refseq	NP_062338

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

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

 45-1 Ramsey Road, Shirley, NY 11967, USA

UniProt ID	Q149L7
Chromosome Location	9 A5.1; 9 20.5 cM
Pathway	Adaptive ImmuneSystem; Immune System; Immunoregulatory interactions between a Lymphoid and anon-Lymphoid cell
Function	protein binding;receptor binding

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

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

 45-1 Ramsey Road, Shirley, NY 11967, USA