

Recombinant Protein Technical Manual Recombinant Cynomolgus CRTAM/CD355 Protein (His Tag) RPES2549

Product Data:

Product SKU: RPES2549

Species: Cynomolgus

Size: 10µg

Expression host: Human Cells

Uniprot: A0A2K5TKL4

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Molecular Mass:	30.8 kDa
AP Molecular Mass:	50-60 kDa
Tag:	C-His
Bio-activity:	
Purity:	> 95% as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per μg as determined by the LAL method.
Storage:	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.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from a 0.2 μ m filtered solution of PBS,pH 7.4.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	Cytotoxic and Regulatory T-Cell Molecule; Class-I MHC-Restricted T-Cell- Associated Molecule; CD355; CRTAM

Sequence: Ser18-Gly287

Background:

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 IFNy or IL-22 production.