

PROPERTIES

Product Data Sheet

CRTAM/CD355 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P7807
Synonyms:	rCynCRTAM, His; Cytotoxic and Regulatory T-Cell Molecule; Class-I MHC-Restricted T-Cell- Associated Molecule; CD355; CRTAM
Species:	Cynomolgus
Source:	HEK293
Accession:	A0A2K5TKL4 (S18-G287)
Gene ID:	102125896
Molecular Weight:	50-60 kDa

AA Sequence	SLTNHTETITVEEGQTLTLKCVTSLRKSSSLQWLTPSGFTIFLNEYPAFKNSRYQLLHHSANQLSISVSNITLQDEGVYKCLHYSDSVSTKEVKVIVLATPFKPILEASVIRKQNGEEHVVLMCSAMRSKPPPQITWLLGNGVEVSGGTHHEFETDGKKCNTTSTLIIHTYGKNSTVDCIIRHRGLQGRKLVAPFRFEDLVTDEETASDALERNSVSSQDPQQPTSTVSVMEDSSTLEIDKEEKEQTTQDPDLTTKANPQYLGLARKKSG
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier pro recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Class I-restricted T cell-associated molecule (CRTAM) is an immunoglobulin-superfamily transmembrane protein, and is a member of nectin-like protein superfamily. CRTAM is also known as CD355 or cytotoxic and regulatory T-cell molecule (expressed by activated CD8+ and NK T cells). In addition, CRTAM is expressed in several non-immune tissues, including liver, lung, testis, kidney, intestine, and brain. CRTAM is also expressed on activated human NK cells, CD8+ T cells and a subset of CD4+ T cells. Noticeably, activated T cells and NK cells only transiently express CRTAM^{[1][3]}.

It is

CRTAM takes part in kinds of signaling pathways, including cellular adhesion, polarity, and proliferation. CRTAM regulates lymphocyte function, and also promotes TCD8+ cell adhesion and retention within the lymph node. Besides, it induces a late phase of cell polarity during activation and regulates effector function in a small subset of TCD4 cells^{[1][2]}. Furthermore, CRTAM can interact with Necl-2 (a ligand for CRTAM), and promotes cytotoxicity of NK cells and IFN-γ secretion of CD8+ T cells in vitro, as well as NK cell-mediated rejection of tumors expressing Necl-2 in vivo. CRTAM shows some sequence homology to nectins and Necls^{[3][4]}.

Caution: Product has not been fully validated for medical applications. For research use only.

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