

# Active Recombinant Human SLAMF7 protein, Fc/Avi-tagged, Biotinylated

Cat. No. SLAMF7-051H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Biotinylated Recombinant Human SLAMF7(Ser23-Met226) protein, fused to Fc/Avi tag at the C-terminus, was expressed in HEK293 cells .
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	Ser23-Met226
<b>Description</b>	<p>CD2-like receptor activating cytotoxic cells (CRACC), also known as CS1, novel Ly9, SLAMF7, and CD319, is a type I transmembrane glycoprotein in the SLAM subgroup of the CD2 family (1). Mature human CRACC consists of an extracellular domain (ECD) with one Ig-like V-set domain and one Ig-like C2-set domain, a transmembrane segment, and a cytoplasmic domain with one immunoreceptor tyrosine-based switch motif (ITSM) (2, 3). Within the ECD, human CRACC shares 54% and 52% amino acid sequence identity with mouse and rat CRACC, respectively. There are seven known isoforms of CRACC which are distinguished by deletions and/or substitutions in both their ECD and cytoplasmic domains. CRACC is expressed on the surface of NK cells, CD8+ T cells, activated B cells, and mature dendritic cells (4, 5). Its homophilic interaction induces NK, CTL, and B cell activation (4-7). In human NK cells, activated CRACC transmits signals following association with the adaptor protein EAT-2 (8). Our Avi-tag Biotinylated Recombinant Human CRACC/SLAMF7 features biotinylation at a single site contained within the Avi-tag, a unique 15 amino acid peptide. Protein</p>

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

orientation will be uniform when bound to streptavidin-coated surface due to the precise control of biotinylation and the rest of the protein is unchanged so there is no interference in the protein's bioactivity.

**Predicted N Terminal** Ser23

**Form** Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

**Bio-activity** The biotin to protein ratio is greater than 0.7 as determined by the HABA assay.

**Molecular Mass** 65-85 kDa, under reducing conditions

**Endotoxin** <0.10 EU per 1 µg of the protein by the LAL method.

**Purity** >95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.

**Applications** Binding Activity, Bioactivity

**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.

**Reconstitution** Reconstitute at 200 µg/mL in PBS.

**Conjugation** Biotin

## GENE INFORMATION

**Gene Name** [SLAMF7 SLAM family member 7 \[ Homo sapiens \]](#)

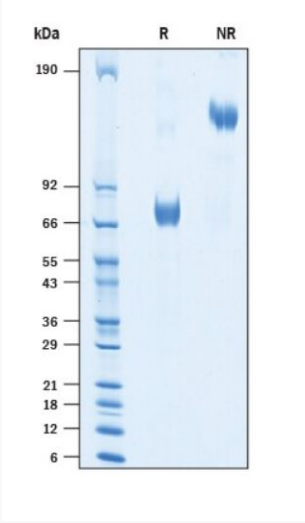
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<b>Official Symbol</b>	<a href="#">SLAMF7</a>
<b>Synonyms</b>	SLAMF7; SLAM family member 7; 19A; CD319; CRACC; CS1; protein 19A; CD2 subset 1; 19A24 protein; membrane protein FOAP-12; CD2-like receptor activating cytotoxic cells; CD2-like receptor-activating cytotoxic cells; novel LY9 (lymphocyte antigen 9) like protein;
<b>Gene ID</b>	<a href="#">57823</a>
<b>mRNA Refseq</b>	<a href="#">NM_021181</a>
<b>Protein Refseq</b>	<a href="#">NP_067004</a>
<b>MIM</b>	<a href="#">606625</a>
<b>UniProt ID</b>	<a href="#">Q9NQ25</a>

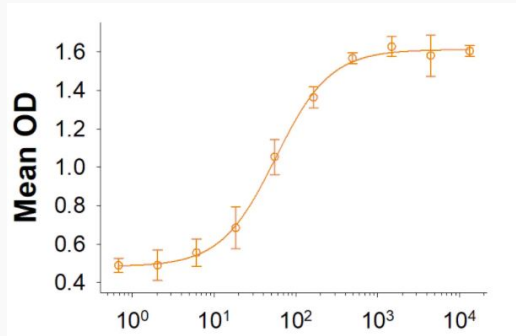
**SDS-PAGE**



2 µg/lane Protein was resolved with SDS-PAGE under reducing (R) and non-

reducing (NR) conditions and visualized by Coomassie® Blue staining.

**Binding Activity**



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