Cynomolgus CD7 Protein, Ultra Low Endotoxin

Cat. No. CD7-CM101-UL

Description

Source	Recombinant Cynomolgus CD7 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Ala26-Pro180.
Accession	XP_005585387.1
Molecular Weight	The protein has a predicted MW of 17.43 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

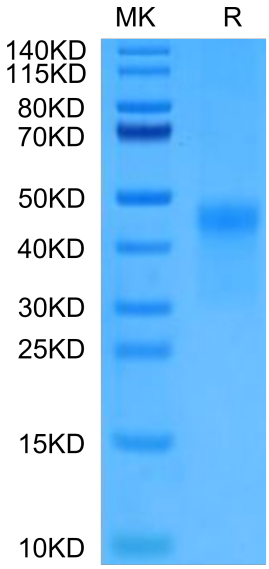
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

CD7, also known as Leu-9, is an approximately 40 kDa glycosylated and palmitoylated transmembrane protein in the immunoglobulin superfamily.CD7 is expressed on T cells, NK cells , myeloid progenitor cells, and CD19 B progenitor cells. Among CD8 T cells, the CD7-bright population preferentially contains naïve and memory cells, while more weak expressors are primarily effector cells.

Assay Data

Bis-Tris PAGE



Cynomolgus CD7 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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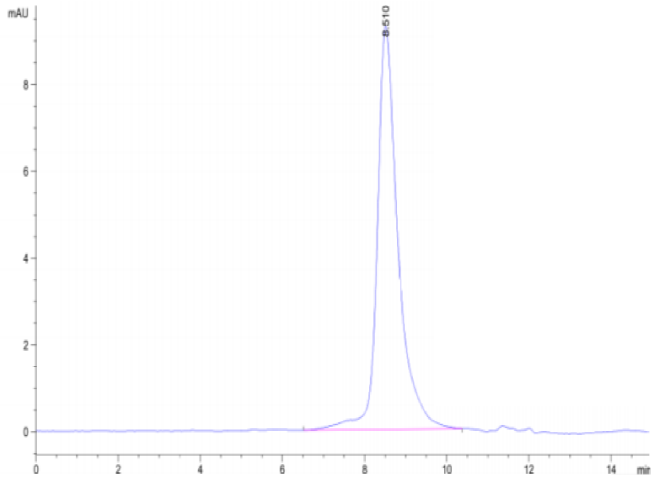
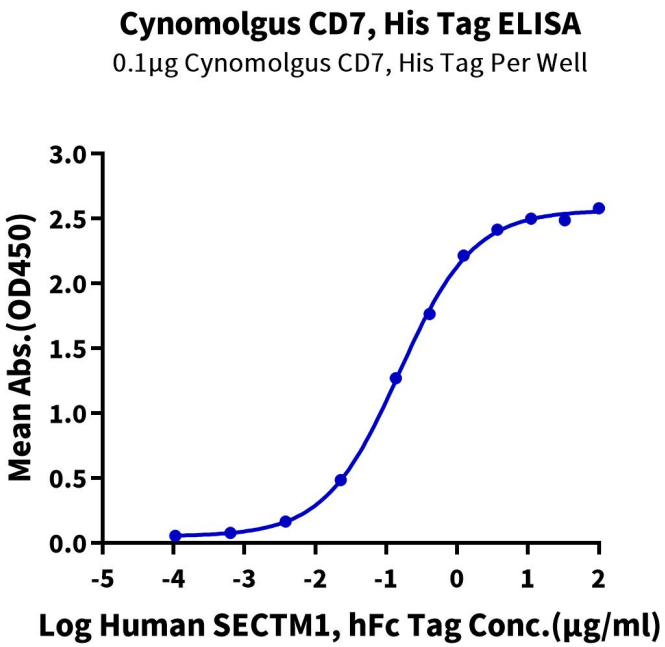
Assay Data



The purity of Cynomolgus CD7 is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Cynomolgus CD7, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Human SECTM1, hFc Tag with the EC50 of 0.15μg/ml determined by ELISA.

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