

Human CD27/TNFRSF7 Protein

Cat. No. CD2-HM227

Description

Source	Recombinant Human CD27/TNFRSF7 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Thr21-Ile192.
Accession	P26842
Molecular Weight	The protein has a predicted MW of 46.2 kDa. Due to glycosylation, the protein migrates to 60-75 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

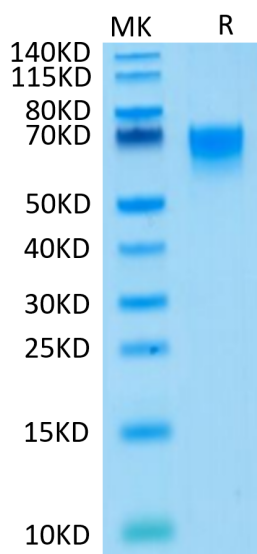
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
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

CD27, also known as TNFRSF7, is an approximately 55 kDa transmembrane protein in the TNF receptor superfamily. It functions as a costimulatory molecule that supports lymphocyte activation and survival. It binds to ligand CD70, and plays a key role in regulating B-cell activation and immunoglobulin synthesis.

Assay Data

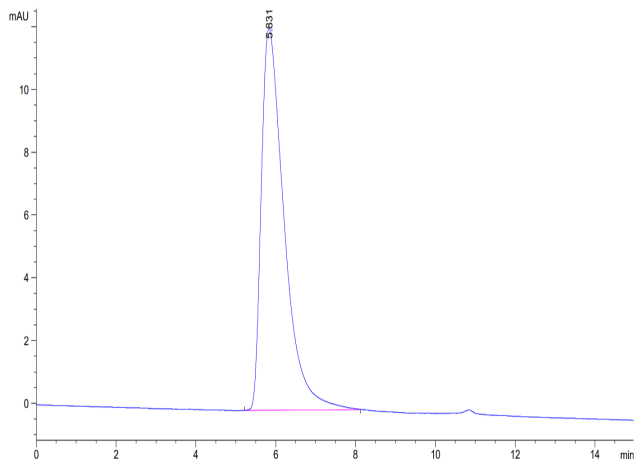
Bis-Tris PAGE



Human CD27/TNFRSF7 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data

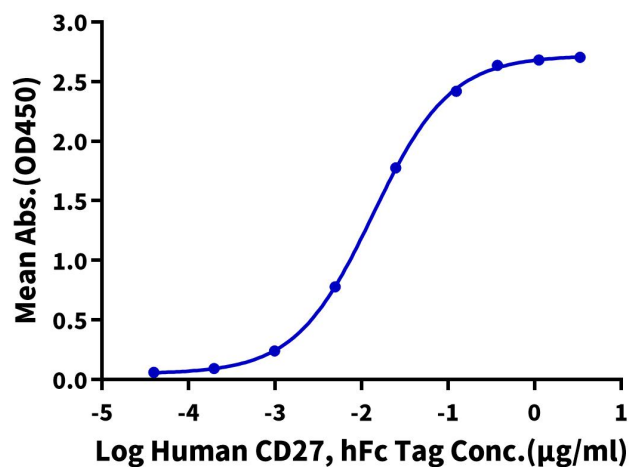


The purity of Human CD27 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human CD27, hFc Tag ELISA

0.2µg Human CD27 Ligand Trimer, His Tag Per Well



Immobilized Human CD27 Ligand Trimer, His Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Human CD27, hFc Tag with the EC50 of 13.5ng/ml determined by ELISA.