

Datasheet

Biotinylated Human CD27 / TNFRSF7 Protein, Fc Tag, Avi Tag (Avitag™)

Catalog # TN7-H82F6

For Research Use Only

Description				
Source	Biotinylated Human CD27, Fc Tag (TN7-H82F6) is expressed from human 293 cells (HEK293). It contains AA Thr 21 - Ile 192 (Accession # NP_001233). Predicted N-terminus: Thr 21			
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Protein Structure	<table border="1"> <tr> <td>CD27(Thr 21 - Ile 192) NP_001233</td> <td>Fc(Pro 100 - Lys 330) P01857</td> <td>Avi</td> </tr> </table>	CD27(Thr 21 - Ile 192) NP_001233	Fc(Pro 100 - Lys 330) P01857	Avi
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Molecular Characterization	This protein carries a human IgG1 Fc tag at the C-terminus, followed by a Avi tag (Avitag™). The protein has a calculated MW of 47.7 kDa. The protein migrates as 55-70 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.			
Biotinylation	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.			
Biotin:Protein Ratio	The biotin to protein ratio is 0.5-1 as determined by the HABA assay.			
Endotoxin	Less than 1.0 EU per µg by the LAL method.			
Purity	>95% as determined by SDS-PAGE.			
Bioactivity	Measured by its binding ability in a functional ELISA. Immobilized Human CD27 Ligand, Fc Tag (Catalog # TN7-H526x) at 10 µg/mL (100 µL/well) can bind Biotinylated Human CD27, Fc Tag (Catalog # TN7-H82F6) with a linear range of 4.9-156 ng/mL (QC tested).			
Formulation and Storage				
Formulation	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5. Normally trehalose is added as protectant before lyophilization. Contact us for customized product form or formulation.			
Reconstitution	Please see Certificate of Analysis for specific instructions. For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.			
Storage	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: <ul style="list-style-type: none"> • 4-8°C for 12 months in lyophilized state; • -70°C for 3 months under sterile conditions after reconstitution. 			
Background				
Background	CD Antigen CD27 is also known as Tumor necrosis factor receptor superfamily member 7 (TNFRSF7), which belongs to TNF-receptor superfamily. CD27 / TNFRSF7 is found in most T-lymphocytes. CD27 / TNFRSF7 is required for generation and long-term maintenance of T cell immunity. It binds to ligand CD70, and plays a key role in regulating B-cell activation and immunoglobulin synthesis. This receptor transduces signals that lead to the activation of NF-κB and MAPK8/JNK. CD27 has been shown to interact with SIVA1, TRAF2 and TRAF3.			
References	<p>(1) Zhang Z., et al., 2004, Protein Sci. 13:2819-2824.</p> <p>(2) Gravestien L.A., et al., 1998, Eur. J. Immunol. 28:2208-2216.</p> <p>(3) Prasad K.V.S., et al., 1997, Proc. Natl. Acad. Sci. U.S.A. 94:6346-6351.</p> <p>Please contact us at TechSupport@acrobiosystems.com, if you have any questions about this product.</p>			

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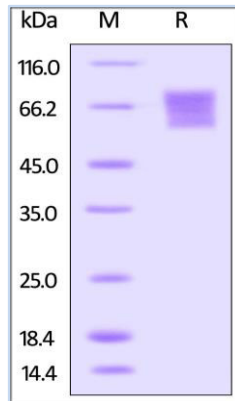
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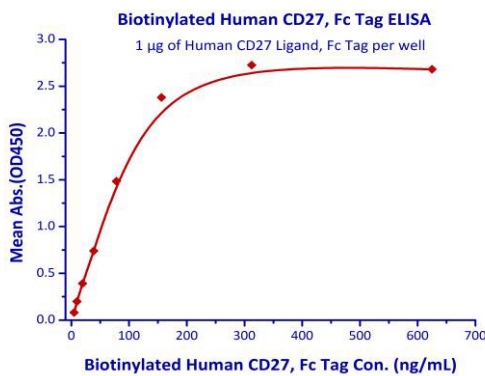
Assay Data

SDS-PAGE Data



Biotinylated Human CD27, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity Data



Immobilized Human CD27 Ligand, Fc Tag (Catalog # TN7-H526x) at 10 µg/mL (100 µL/well) can bind Biotinylated Human CD27, Fc Tag (Catalog # TN7-H82F6) with a linear range of 4.9-156 ng/mL (QC tested).