

# Recombinant Human CD27/TNFRSF7 Protein (His Tag)

Catalog Number:PKSH031925



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

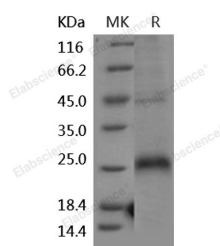
## Description

<b>Synonyms</b>	S152;S152. LPFS2;S152.LPFS2;T14;TNFRSF7;Tp55
<b>Species</b>	Human
<b>Expression Host</b>	Baculovirus-Insect Cells
<b>Sequence</b>	Met 1-Ile192
<b>Accession</b>	P26842
<b>Calculated Molecular Weight</b>	20.7 kDa
<b>Observed molecular weight</b>	27 kDa
<b>Tag</b>	C-His
<b>Bioactivity</b>	Measured by its binding ability in a functional ELISA. Immobilized human CD27-his at 10 µg/mL (100 µl/well) can bind biotinylated human CD70-Fc, The EC50 of biotinylated human CD70-Fc is 57-85 ng/mL.

## Properties

<b>Purity</b>	> 85 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 85 % as determined by reducing SDS-PAGE.

## Background

CD27; also known as TNFRSF7; is a member of the TNF-receptor superfamily limited to cells of the lymphoid lineage; and exists as both a dimeric glycoprotein on the cell surface and as a soluble protein in serum. As a type I transmembrane glycoprotein of about 55 kDa existing as disulfide-linked homodimer; CD27 has been shown to play roles in lymphoid proliferation; differentiation; and apoptosis. It has important role in generation of T cell immunity; and is an apparently robust marker for normal memory B cells. It is a T and B cell co-stimulatory molecule; the activity of CD27 is governed

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by its TNF-like ligand CD70 on lymphocytes and dendritic cells. The CD27-CD70 interaction is required for Th1 generation responses to differentiation signals and long-term maintenance of T cell immunity; and meanwhile; plays a key role in regulating B-cell differentiation; activation and immunoglobulin synthesis.

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