

# Recombinant Human CD27/TNFRSF7 Protein (His Tag)



Catalog Number:PKSH031925

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

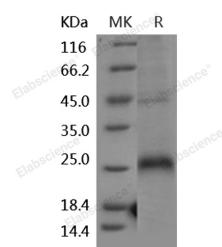
## Description

|                                    |                                                                                                                                                                                                         |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>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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