

# Recombinant Rat CD27 Protein (Met1-Cys181), MlgG2a Fc-tagged

**Cat. No.** CD27-947R    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Recombinant Rat CD27 Protein (NP\_001019506.1) (Met1-Cys181) was produced by HEK293 Cells expression system. This protein was expressed with the Fc region of mouse IgG2a at the C-terminus.

**Species**      Rat

**Source**      HEK293

**ProteinLength**      Met1-Cys181

**Description**      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 by its TNF-like ligand CD7 on lymphocytes and dendritic cells. The CD27-CD7 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.

**Predicted N Terminal**      Thr 21

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|                       |  |
|-----------------------|--|
| <b>Form</b>           | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.   |
| <b>Molecular Mass</b> | The recombinant rat CD27 consists of 394 amino acids and predicts a molecular mass of 44.1 kDa.  |
| <b>Endotoxin</b>      | < 1.0 EU per µg protein as determined by the LAL method.   |
| <b>Purity</b>         | > 90 % as determined by SDS-PAGE.  |
| <b>Stability</b>      | Samples are stable for up to twelve months from date of receipt at -70 centigrade.   |
| <b>Storage</b>        | Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.   |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.  |
| <b>Shipping</b>       | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | Cd27 CD27 molecule [ <a href="#">Rattus norvegicus</a> ]              |
| <b>Official Symbol</b> | <a href="#">CD27</a>  |
| <b>Synonyms</b>        | CD27; CD27 molecule; CD27 antigen; CD antigen 27; Tnfrsf7; MGC112688; |

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| <b>Gene ID</b>        | 500318       |
| <b>mRNA Refseq</b>    | NM_001024335 |
| <b>Protein Refseq</b> | NP_001019506 |
| <b>UniProt ID</b>     | Q501W2       |

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