

## Active Recombinant Human CD27, Fc-tagged

Cat. No. CD27-141H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** The extracellular domain of human CD27 (aa 21-192) is fused to the N-terminus of the Fc region of human IgG1.

**Species** Human

**Source** CHO

**ProteinLength** 21-192 a.a.

**Description** CD27 (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 T and B cell co-stimulatory molecule, the activity of CD27 is governed 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. The CD27 receptor transduces signals and subsequently leads to the activation of NF- $\kappa$ B and MAPK8/JNK, mediated by the adaptor proteins TRAF2 and TRAF5. In addition, the proapoptotic protein SIVA is capable of binding the cytoplasmic tail of CD27 and exerts action in the process of apoptosis.

**Form** Lyophilized from 0.2 $\mu$ m-filtered solution in PBS.

**Bio-activity** Measured by its ability to inhibit the proliferation of mouse T cells induced by CD27 ligand and anti-CD3.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	≥98% (SDS-PAGE)
<b>Stability</b>	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
<b>Storage</b>	Short Term Storage: +4°C; Long Term Storage: -20°C. Avoid freeze/thaw cycles.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	CD27 CD27 molecule [ Homo sapiens ]
<b>Official Symbol</b>	CD27
<b>Synonyms</b>	CD27; CD27 molecule; TNFRSF7, tumor necrosis factor receptor superfamily, member 7; CD27 antigen; S152; Tp55; CD27L receptor; T cell activation antigen S152; T-cell activation antigen CD27; tumor necrosis factor receptor superfamily, member 7; T14; TNFRSF7; MGC20393;
<b>Gene ID</b>	939
<b>mRNA Refseq</b>	NM_001242
<b>Protein Refseq</b>	NP_001233
<b>MIM</b>	186711
<b>UniProt ID</b>	P26842
<b>Chromosome Location</b>	12p13
<b>Pathway</b>	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-

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cytokine receptor interaction, conserved biosystem;

**Function**

cysteine-type endopeptidase inhibitor activity involved in apoptotic process; protein binding; receptor activity; transmembrane signaling receptor activity;

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