

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-κB 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 μ 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

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Purity	≥98% (SDS-PAGE)
Stability	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.
Storage	Short Term Storage: +4°C; Long Term Storage: -20°C. Avoid freeze/thaw cycles.
GENE INFORMATION	
Gene Name	CD27 CD27 molecule [Homo sapiens]
Official Symbol	CD27
Synonyms	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;
Gene ID	939
mRNA Refseq	NM_001242
Protein Refseq	NP_001233
MIM	186711
UniProt ID	P26842
Chromosome Location	12p13
Pathway	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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