

Recombinant Human CD27 Molecule, Fc-His

Cat. No. CD27-1592H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CD27 (amino acid residues 1-192) containing the extracellular domain was fused to the carboxy-terminal 6X his-tagged Fc region of human IgG1. The chimeric protein was expressed in <i>NSO cells</i> .
Species	Human
Source	Mammalian Cells
ProteinLength	1-192 a.a.
Description	CD27 is a tumor necrosis factor receptor. The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor is required for generation and long-term maintenance of T cell immunity. It exists as both a disulfide-linked dimer on the cell surface and as a soluble protein found in serum. It binds to ligand CD70 which is expressed on thymic stromal cells and a small subset of activated T cells and plays a key role in regulating B-cell activation and immunoglobulin synthesis. This receptor transduces signals that lead to the activation of NF-κB and MAPK8/JNK. Adaptor proteins TRAF2 and TRAF5 have been shown to mediate the signaling process of this receptor. CD27-binding protein (SIVA), a proapoptotic protein, can bind to this receptor and is thought to play an important role in the apoptosis induced by this receptor.
Molecular Weight	The predicted molecular weight of Recombinant Human CD27 is Mr 46.5 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr

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	60-70 kDa.
State Of Matter	Lyophilized.
Purity	>90% by SDS Page and analyzed by silver stain.
Formulation	This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Biological Activity	The biological activity of Human CD27 was determined by its ability to inhibit the proliferation of mouse T cells induced by recombinant mouse CD27 ligand (10 µg/ml, 100 µl/well) and a sub-optimal concentration of anti-CD3. The expected ED50 is typically 0.75 - 3 µg/ml.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	CD27 CD27 molecule [Homo sapiens]
Synonyms	CD27; CD27 antigen; T14; S152; TNFRSF7; MGC20393; Tp55; CD27 molecule; tumor necrosis factor receptor superfamily, member 7; CD27L receptor; T cell activation antigen CD27; T cell activation antigen S152; T- cell activation antigen CD27; Tumor necrosis factor receptor superfamily member 7

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Gene ID	939
mRNA Refseq	NM_001242
Protein Refseq	NP_001233
MIM	186711
UniProt ID	P26842
Chromosome Location	12p13
Function	caspase inhibitor activity; protein binding; transmembrane receptor activity

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