

Active Recombinant Human CD70 Protein, HA/GCN4-IZ-tagged

Cat. No. CD70-218H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD27 Ligand Protein (Gln39-Pro193) with HA (YPYDVPDYA) tag and GCN4-IZ tag at N-terminus was expressed in human embryonic kidney cell.
Species	Human
Source	HEK293
ProteinLength	39-193 a.a.
Description	The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This cytokine is a ligand for TNFRSF27/CD27. It is a surface antigen on activated, but not on resting, T and B lymphocytes. It induces proliferation of costimulated T cells, enhances the generation of cytolytic T cells, and contributes to T cell activation. This cytokine is also reported to play a role in regulating B-cell activation, cytotoxic function of natural killer cells, and immunoglobulin synthesis.
Form	Noncovalently-linked homotrimer
Bio-activity	Measured by its ability to induce IL-8 secretion in HT1080 human fibrosarcoma cells transfected with human CD27. The ED50 for this effect is 5-25 ng/mL in the presence of Mouse Anti-Hemagglutinin/HA Peptide Monoclonal Antibody.
Molecular Mass	23 kDa

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N-terminal Sequence Analysis	Tyr
Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	> 95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	Reconstitute at 200 μg/mL in PBS.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	CD70 CD70 molecule [Homo sapiens (human)]
Official Symbol	CD70
Synonyms	CD70; CD70 molecule; CD27L; LPFS3; CD27-L; CD27LG; TNFSF7; TNLG8A; CD70 antigen; CD27 ligand; Ki-24 antigen; surface antigen CD70; tumor necrosis factor ligand 8A; tumor necrosis factor ligand superfamily member 7
Gene ID	970

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mRNA Refseq	NM_001252
Protein Refseq	NP_001243
MIM	602840
UniProt ID	P32970
Bioactivity	Recombinant Human CD27 Ligand/TNFSF7 induces IL-8 secretion in HT1080 human fibrosarcoma cells transfected with Human CD27. The ED50 for this effect is 5-25 ng/mL.

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