

Recombinant Mouse CD70 protein (active trimer)(HPLC-verified), His-tagged

Cat. No. CD70-329M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse CD70 protein (Gln47-Pro195, active trimer)(HPLC-verified), fused to His tag at N-terminus, was expressed in human 293 cells (HEK293).
Species	Mouse
Source	HEK293
ProteinLength	149
Description	Cluster of Differentiation 70 (CD70) is also known as CD27 ligand (CD27L / CD27LG), TNFSF7, TNFSF7G, is a type II transmembrane glycoprotein belonging to the TNF superfamily (TNFSF) and is a surface antigen found on activated T-and B-lymphocytes and mature dendritic cells. Binding of CD70 to its receptor CD27 induces in priming, effector functions, differentiation and memory formation of T-cells, and thus is involved in the biological processes including T-cell activation, the proliferation of costimulated T-cells, as well as the generation of cytolytic T-cells. CD70 on T cells provides costimulatory signals that are required for T cell proliferation, clonal expansion and the promotion of effector T cell formation. CD70 on mouse B cell has been shown to inhibit terminal differentiation of activated B cells into plasma cells and enhances commitment to memory B cell responses. CD70 induces proliferation and IFN γ production, on NK cells.
Form	Lyophilized from 0.22 μ m filtered solution in PBS, pH7.4, 10% trehalose.

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Molecular Mass	The protein has a calculated MW of 18.6 kDa. The protein migrates as 27-30 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CD70
Official Symbol	CD70
Synonyms	CD70; CD70 antigen; CD27-L; CD27 ligand; Ki-24 antigen; tumor necrosis factor ligand superfamily member 7; tumor necrosis factor (ligand) superfamily, member 7; Cd27l; CD27LG; Tnfsf7
Gene ID	21948
mRNA Refseq	NM_011617

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Protein Refseq	NP_035747
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UniProt ID	O55237
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