

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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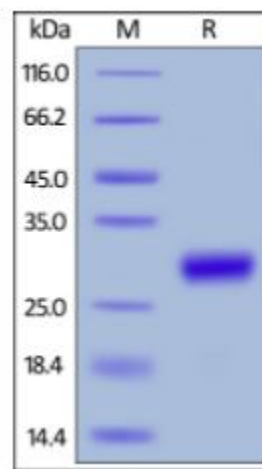
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Protein Refseq NP_035747

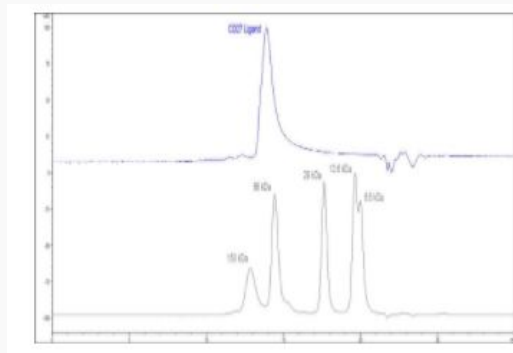
UniProt ID O55237

SDS-PAGE of CD70-329M



Mouse CD27 Ligand (active trimer) (HPLC-verified) on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-HPLC of CD70-329M



The purity of Mouse CD27 Ligand, His Tag (active trimer) (HPLC-verified) was more

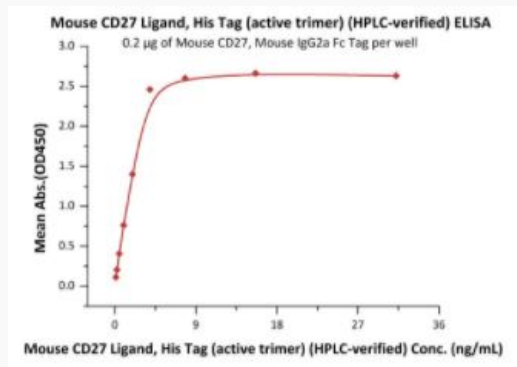
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than 95% as determined by SEC-HPLC.

Bioactivity-ELISA of CD70-329M



Immobilized Mouse CD27, Mouse IgG2a Fc Tag, low endotoxin at 2 µg/mL (100 µL/well) can bind Mouse CD27 Ligand, His Tag (active trimer) (HPLC-verified) with a linear range of 0.1-4 ng/mL (QC tested).

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