

CD70 active protein

CD70 Protein, Mouse, Recombinant (mFc Tag)

CATALOG #
AAA258236

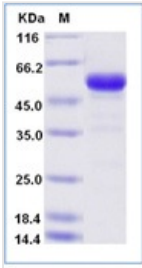
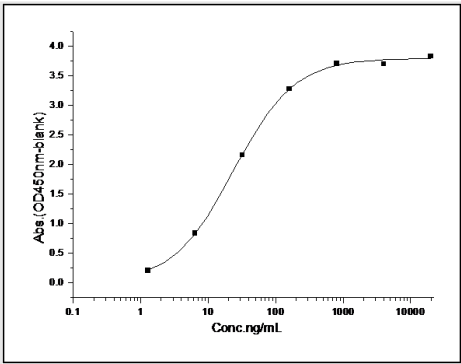
HOST
HEK293 Cells

PRODUCT SYNONYMS

CD70; CD70 Protein; Mouse; Recombinant (mFc Tag); Mouse CD70/CD27L/TNFSF7 Protein (Fc Tag); Cd27l Protein; CD27LG Protein; Tnfsf7 Protein; CD70 molecule; CD70 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Gln47-Pro1 59
Species	Mouse
Endotoxin	<1.0EU per ug protein as determined by the LAL method.
Predicted N Terminal	Asp
Tag	N-mouse IgG1-Fc
Protein Construction	A DNA sequence encoding the mouse Cd70 (NP_035747.1)(Gln47-Pro195) was expressed with the Fc region of mouse IgG1 at the N-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	1.Measured by its binding ability in a functional ELISA.2.Immobilized mouse CD27-His at 10ug/mL (100uL/well) can bind mouse CD70. The EC50 of mouse CD70 is 10-50ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized mouse CD27-His at 10 ug/mL (100 uL/well) can bind mouse CD70, the EC50of mouse CD70 is 10-50 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for CD70 active protein	Background: CD70, a member of the tumor necrosis factor superfamily, is restricted to activated T-and B-lymphocytes and mature dendritic cells. Binding of CD70 to its receptor, CD27, is important in priming, effector functions, differentiation and memory formation of T-cells as well as plasma and memory B-cell generation. Tight control of CD70 expression is required to prevent lethal immunodeficiency. By selective transcription, CD70 is largely confined to activated lymphocytes and dendritic cells (DC). As a type II transmembrane receptor, CD70 is normally expressed on a subset of B, T and NK cells, where it plays a costimulatory role in immune cell activation. Immunohistochemical analysis of CD70 expression in multiple carcinoma types. The restricted expression pattern of CD70 in normal tissues and its widespread expression in various malignancies makes it an attractive target for antibody-based therapeutics. Investigations to exploit CD70 as a cancer target have lead to the identification of potential antibody-based clinical candidates.
Product Categories/Family for CD70 active protein	Cancer Drug Targets
References	Adam PJ, et al. (2006) CD70 (TNFSF7) is expressed at high prevalence in renal cell carcinomas and is rapidly internalised on antibody binding. Br J Cancer. 95(3): 298-306.Keller AM, et al. (2007) Costimulatory ligand CD70 is delivered to the immunological synapse by shared intracellular trafficking with MHC class II molecules. Proc Natl Acad Sci U S A. 104(14): 5989-94.Grewal IS. (2008) CD70 as a therapeutic target in human malignancies. Expert Opin Ther Targets. 12(3): 341-51.Boursalian TE, et al. (2009) Targeting CD70 for human therapeutic use. Adv Exp Med Biol. 647: 108-19.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6755839
NCBI GeneID	21948
NCBI Accession #	NP_035747.1
NCBI GenBank Nucleotide #	NM_011617.2
UniProt Accession #	O55237
Molecular Weight	21,919 Da
NCBI Official Full Name	CD70 antigen
NCBI Official Synonym Full Names	CD70 antigen
NCBI Official Symbol	Cd70
NCBI Official Synonym Symbols	Cd27l; CD27LG; Tnfsf7
NCBI Protein Information	CD70 antigen; CD27 ligand; CD27-L; Ki-24 antigen; tumor necrosis factor (ligand) superfamily, member 7; tumor necrosis factor ligand superfamily member 7

UniProt Protein Name	CD70 antigen
UniProt Gene Name	Cd70
UniProt Synonym Gene Names	Cd27l; Cd27lg; Tnfsf7; CD27-L
UniProt Entry Name	CD70_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/hek293-active-protein/cd70/258236>