

## Recombinant Human CD70 protein, His-tagged

Cat. No. CD70-56H Lot. No. (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant human CD70, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.   |
| <b>Species</b>          | Human  |
| <b>Source</b>           | Insect Cells   |
| <b>Description</b>      | CD70, also known as CD70 antigen, is a transmembrane protein in the TNF receptor superfamily. It functions as a co-stimulatory molecule that supports lymphocyte activation and survival. This protein binds to the transmembrane glycoprotein CD27 ligand/CD70 which is expressed on activated B cells, activated T cells, and dendritic cells. Binding of CD70 to its receptor CD27 induces in priming, effector functions, differentiation and memory formation of T cell activation, and thus is proliferation of co-stimulated T cells, as well as the generation of cytolytic T cells. |
| <b>Form</b>             | Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.   |
| <b>Molecular Mass</b>   | 18.2kDa (164aa)  |
| <b>AA Sequence</b>      | ADPQRFAQAQ QQLPLESLGW DVAELQLNHT GPQQDPRLYW QGGPALGRSF<br>LHGPELDKGQ LRIHRDGIYM VHIQVTLAIC SSTTASRHHP TTLAVGICSP<br>ASRSISLLRL SFHQGCTIAS QRLTPLARGD TLCTNLTGTL LPSRNTDETF<br>FGVQWVRPHH HHHH  |
| <b>Endotoxin</b>        | < 1.0 EU per 1 microgram of protein (determined by LAL method)   |

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|                            |   |
|----------------------------|---|
| <b>Purity</b>              | >90% by SDS - PAGE  |
| <b>Storage</b>             | Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20Centigrade or -70Centigrade. Avoid repeated freezing and thawing cycles. |
| <b>Concentration</b>       | 0.25mg/ml (determined by Absorbance at 280nm)   |
| <b>GENE INFORMATION</b>    |   |
| <b>Gene Name</b>           | CD70 CD70 molecule [ Homo sapiens ]   |
| <b>Official Symbol</b>     | CD70  |
| <b>Synonyms</b>            | CD70; CD70 molecule; CD70 antigen; CD27L; CD27-L; CD27LG; TNFSF7  |
| <b>Gene ID</b>             | 970   |
| <b>mRNA Refseq</b>         | NM_001252   |
| <b>Protein Refseq</b>      | NP_001243   |
| <b>MIM</b>                 | 602840  |
| <b>UniProt ID</b>          | P32970  |
| <b>Chromosome Location</b> | 19p13   |
| <b>Pathway</b>             | Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem;   |

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**Function**

cytokine activity; protease binding; protein binding; receptor binding; tumor necrosis factor receptor binding;

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