

## Animal-Free CD70 Protein, Mouse (His)

<b>Cat. No.:</b>	HY-P72741AF
<b>Synonyms:</b>	soluble CD27 Ligand; sCD27 Ligand; TNFSF7; CD70; Tnfs; Tnlg8a
<b>Species:</b>	Mouse
<b>Source:</b>	E. coli
<b>Accession:</b>	Q05A52 (Q47-P195)
<b>Gene ID:</b>	21948
<b>Molecular Weight:</b>	Approximately 17.25 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           QQQRLLEHPE PHTAELQLNL TVPRKDPTLR WGAGPALGRS            FTHGPELEEG HLRIHQDGLY RLHIQVTLAN CSSPGSTLQH            RATLAVGICS PAAHGISLLR GRFGQDCTVA LQRLTYLVHG            DVLCTNLTLP LLPSRNADET FFGVQWICP         </p>
<b>Biological Activity</b>	Measure by its ability to induce proliferation in mouse T cells in the presence of the anti-CD3 antibody. The ED <sub>50</sub> for this effect is <4.5 µg/mL.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a solution containing 1X PBS, pH7.4.
<b>Endotoxin Level</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>The CD70 Protein is a notable member of the tumor necrosis factor family, highlighting its pivotal role in immune regulation and cellular responses. As part of this family, CD70 likely shares conserved structural and functional features with related proteins, emphasizing its involvement in signaling pathways associated with immune modulation. The classification within the tumor necrosis factor family underscores its specific designation within the broader context of cytokines, providing insights into its unique contributions to T cell activation and co-stimulation. The study of CD70 contributes to our understanding of its role in immune homeostasis, offering potential applications in various immunological assays and</p>
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therapeutic developments without animal-derived components. Further exploration of CD70's role holds promise for enhancing our knowledge of its contributions to both normal immune function and pathological conditions.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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