

# Recombinant Human CD70 Protein (Gln39-Pro193), RIgG Fc-tagged

Cat. No. CD70-437H Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Recombinant Human CD70 Protein (NP\_001243.1) (Gln39-Pro193) was produced by HEK293 Cells expression system. This protein was expressed with the Fc region of rabbit IgG at the N-terminus..

**Species** Human

**Source** HEK293

**ProteinLength** Gln39-Pro193

**Description** 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.

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<b>Predicted N Terminal</b>	Ser
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Molecular Mass</b>	The recombinant human CD70 consists of 406 amino acids and predicts a molecular mass of 44.6 kDa.
<b>Endotoxin</b>	< 1.0 EU per µg protein as determined by the LAL method.
<b>Purity</b>	> 85 % as determined by SDS-PAGE.
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
<b>Storage</b>	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
<b>Shipping</b>	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 unless customers require otherwise.

## GENE INFORMATION

<b>Gene Name</b>	CD70 CD70 molecule [ Homo sapiens ]
<b>Official Symbol</b>	CD70

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<b>Synonyms</b>	CD70; CD70 molecule; CD70 antigen; CD27L; CD27-L; CD27 ligand; Ki-24 antigen; CD27LG; TNFSF7;
<b>Gene ID</b>	<a href="#">970</a>
<b>mRNA Refseq</b>	<a href="#">NM_001252</a>
<b>Protein Refseq</b>	<a href="#">NP_001243</a>
<b>MIM</b>	<a href="#">602840</a>
<b>UniProt ID</b>	<a href="#">P32970</a>

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