

Animal-Free CD70 Protein, Human (His)

Cat. No.:	HY-P700035AF
Synonyms:	CD70 antigen; CD70; CD27 ligand; CD27LG; TNFSF7; CD27L
Species:	Human
Source:	E. coli
Accession:	P32970 (Q39-P193)
Gene ID:	970
Molecular Weight:	Approximately 18.08 kDa

PROPERTIES

AA Sequence	<p> Q R F A Q A Q Q Q L P L E S L G W D V A E L Q L N H T G P Q Q D P R L Y W Q G G P A L G R S F L H G P E L D K G Q L R I H R D G I Y M V H I Q V T L A I C S S T T A S R H H P T T L A V G I C S P A S R I S L L R L S F H Q G C T I A S Q R L T P L A R G D T L C T N L T G T L L P S R N T D E T F F G V Q W V R P </p>
Biological Activity	Measure by its ability to induce IL-8 secretion in human PBMCs. The ED ₅₀ for this this effect is <0.6 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 8.0.
Endotoxin Level	<0.01 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>CD70, a cytokine functioning as the ligand for CD27, is integral to the CD70-CD27 pathway, which holds a crucial role in the development and sustenance of T cell immunity, especially in antiviral responses. Upon binding to CD27, CD70 induces the proliferation of costimulated T-cells and amplifies the generation of cytolytic T-cells, contributing to an effective immune response. Structurally, CD70 forms homotrimers, reflecting its molecular organization. The CD70-CD27 interaction underscores its significance in orchestrating T cell-mediated immune responses, providing valuable insights into the regulation of immune functions.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA