

FITC-Labeled CD70 Trimer Protein, Human (HEK293, His-Flag)

Cat. No.:	HY-P701287
Synonyms:	CD70; CD27LG; TNFSF7; TNFSF7G; CD27L
Species:	Human
Source:	HEK293
Accession:	P32970 (S52-P193)
Gene ID:	970
Molecular Weight:	50-55 kDa under non-reducing (NR) condition due to glycosylation.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from 0.22 µm filtered solution of PBS, pH7.4 . Normally trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by 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 1 year, protect from light. 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	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.
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Caution: Product has not been fully validated for medical applications. For research use only.

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