



## Synonym

CD70,CD27LG,TNFSF7,TNFSF7G,CD27L

## Source

FITC-Labeled Human CD27 Ligand, His,Flag Tag(CDD-HF2D4) is expressed from human 293 cells (HEK293). It contains AA Ser 52 - Pro 193 (Accession # [P32970-1](#)).

Predicted N-terminus: His

## Molecular Characterization

This protein carries a polyhistidine tag at the N-terminus, followed by a flag tag.

The protein has a calculated MW of 49.3 kDa. The protein migrates as 50-55 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under non-reducing (NR) condition (SDS-PAGE) due to glycosylation.

## Conjugate

FITC

Excitation source: 488 nm spectral line, argon-ion laser

Excitation Wavelength: 488 nm

Emission Wavelength: 535 nm

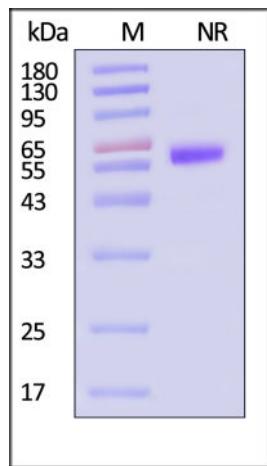
## Labeling

*The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with FITC using standard chemical labeling method. The residual FITC is removed by molecular sieve treatment during purification process.*

## Protein Ratio

The FITC to protein molar ratio is 2-4.

## SDS-PAGE



FITC-Labeled Human CD27 Ligand, His,Flag Tag on SDS-PAGE under non-reducing (NR) condition. The gel was stained with Coomassie Blue. The purity

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

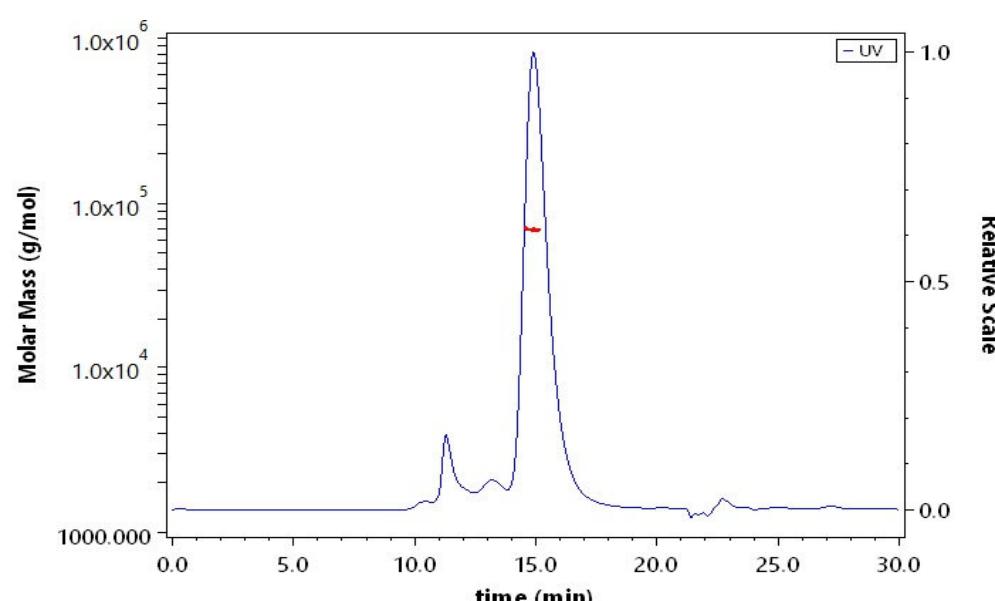
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please protect from light and avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SEC-MALS



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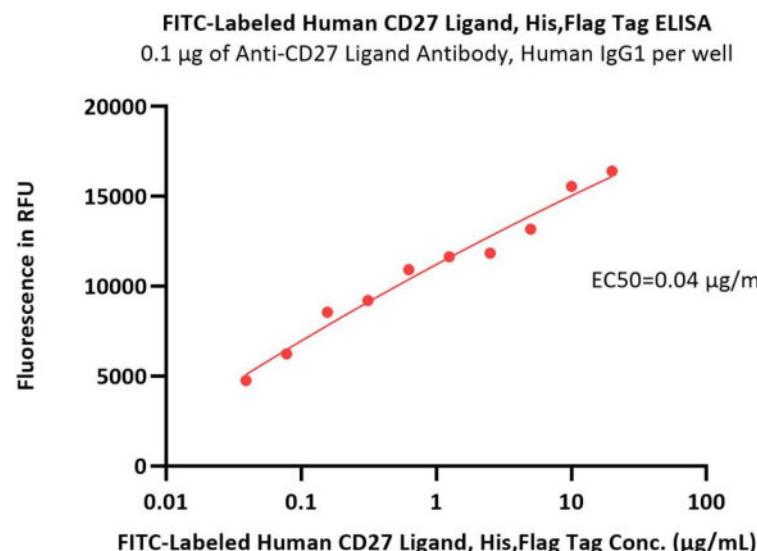


of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

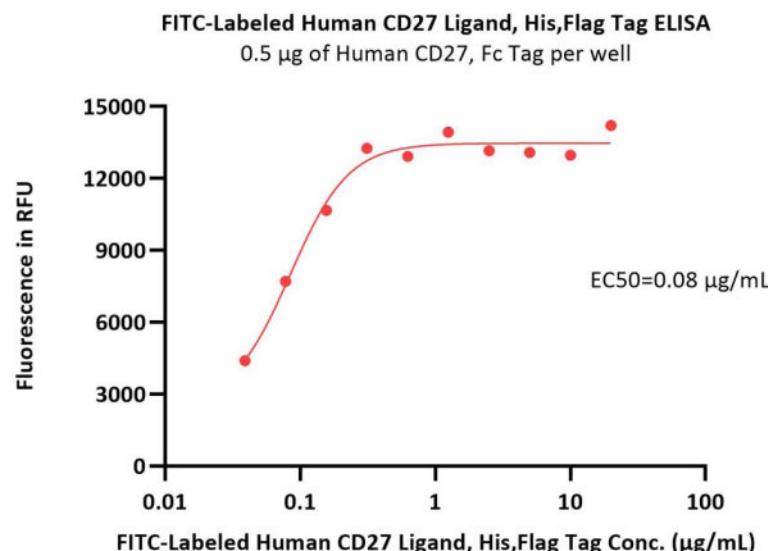
The purity of FITC-Labeled Human CD27 Ligand, His,Flag Tag (Cat. No. CDD-HF2D4) is more than 85% and the molecular weight of this protein is around 55-74 kDa verified by SEC-MALS.

[Report](#)

## Bioactivity-ELISA



Immobilized Anti-CD27 Ligand Antibody, Human IgG1 at 1 µg/mL (100 µL/well) can bind FITC-Labeled Human CD27 Ligand, His,Flag Tag (Cat. No. CDD-HF2D4) with a linear range of 0.039-0.156 µg/mL (QC tested).



Immobilized Human CD27, Fc Tag (Cat. No. CD7-H5254) at 5 µg/mL (100 µL/well) can bind FITC-Labeled Human CD27 Ligand, His,Flag Tag (Cat. No. CDD-HF2D4) with a linear range of 0.039-0.156 µg/mL (Routinely tested).

## Background

Cluster of Differentiation 70 (CD70) is also known as CD27 ligand (CD27L / CD27LG), TNFSF7, TNFSF7G, is a type II transmembrane glycoprotein belonging to the TNF superfamily (TNFSF) and is a surface antigen found on activated T-and B-lymphocytes and mature dendritic cells. Binding of CD70 to its receptor CD27 induces in priming, effector functions, differentiation and memory formation of T-cells, and thus is involved in the biological processes including T-cell activation, the proliferation of costimulated T-cells, as well as the generation of cytolytic T-cells. CD70 on T cells provides costimulatory signals that are required for T cell proliferation, clonal expansion and the promotion of effector T cell formation. CD70 on mouse B cell has been shown to inhibit terminal differentiation of activated B cells into plasma cells and enhances commitment to memory B cell responses. CD70 induces proliferation and IFN $\gamma$  production, on NK cells.

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