



### Synonym

DLL4,Delta4

### Source

Human DLL4 Protein, Fc Tag(DL4-H5259) is expressed from human 293 cells (HEK293). It contains AA Ser 27 - Pro 524 (Accession # [NP\\_061947.1](#)).

Predicted N-terminus: Ser 27

### Molecular Characterization

DLL4(Ser 27 - Pro 524) NP_061947.1	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 80.9 kDa. The protein migrates as 95-100 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

### Endotoxin

Less than 0.01 EU per µg by the LAL method.

### Sterility

Negative

### Purity

>95% as determined by SDS-PAGE.

### Formulation

Lyophilized from 0.22 µm filtered solution in 100 mM Glycine, 150 mM NaCl, 25 mM Arginine, 50 mM Tris, pH7.5 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

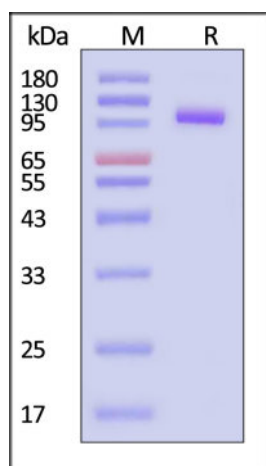
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please 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.

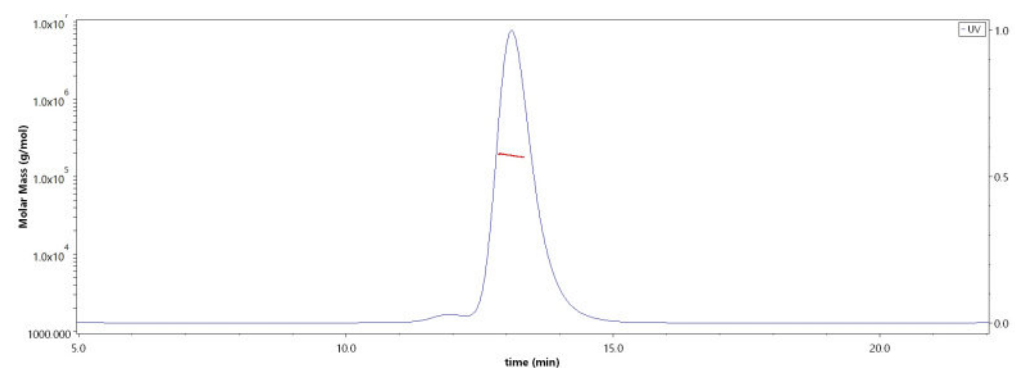
### SDS-PAGE



Human DLL4 Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

### Bioactivity-ELISA

### SEC-MALS

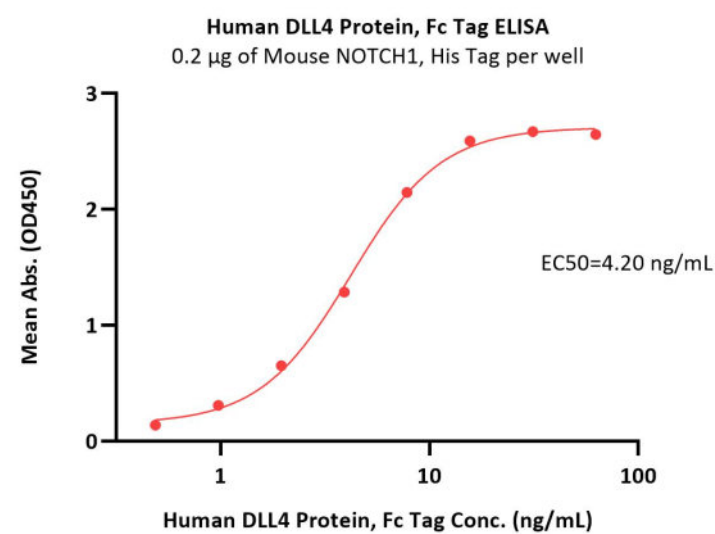
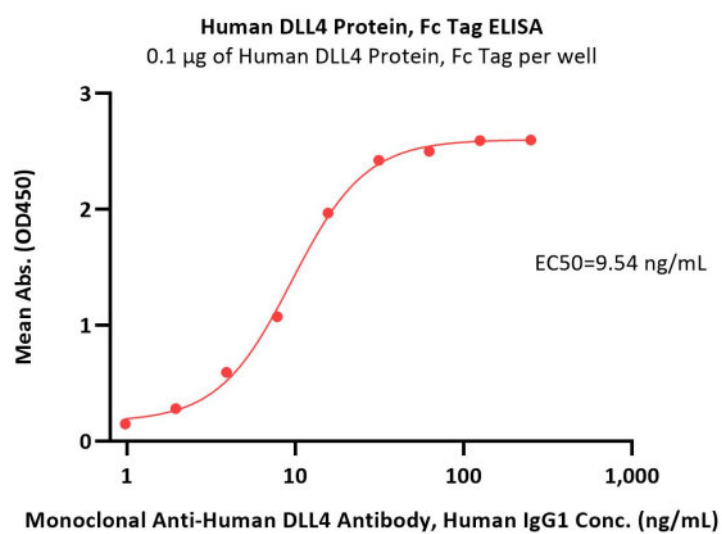


The purity of Human DLL4 Protein, Fc Tag (Cat. No. DL4-H5259) is more than 85% and the molecular weight of this protein is around 175-215 kDa verified by SEC-MALS.

[Report](#)

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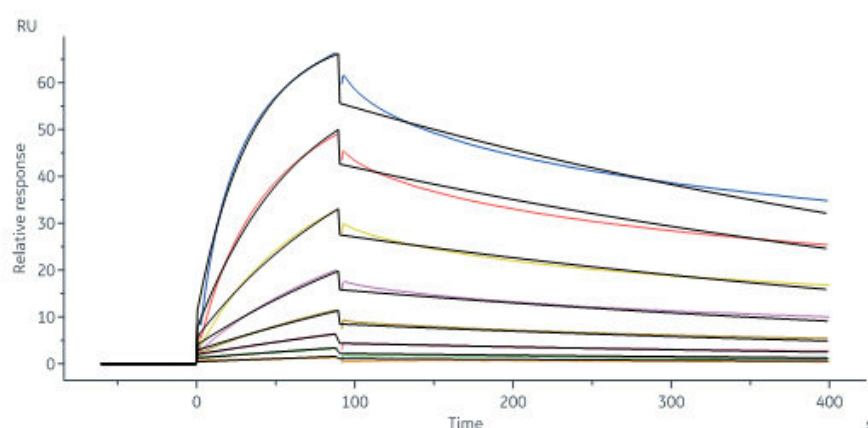




Immobilized Human DLL4 Protein, Fc Tag (Cat. No. DL4-H5259) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-Human DLL4 Antibody, Human IgG1 with a linear range of 1-16 ng/mL (QC tested).

Immobilized Mouse NOTCH1, His Tag (Cat. No. NO1-M52H8) at 2 µg/mL (100 µL/well) can bind Human DLL4 Protein, Fc Tag (Cat. No. DL4-H5259) with a linear range of 0.5-8 ng/mL (Routinely tested).

### Bioactivity-SPR



Human DLL4 Protein, Fc Tag (Cat. No. DL4-H5259) captured on Protein A Chip can bind Human NOTCH1 Protein, His Tag, premium grade (Cat. No. NO1-H52H3) with an affinity constant between 1.00 nM - 150 nM as determined in a SPR assay (Biacore 8K) (QC tested).

### Background

Delta-like protein 4 (DLL4) is also known as Drosophila Delta homolog 4 (Delta4), which contains one DSL domain and eight EGF-like domains. DLL4 is expressed in vascular endothelium. DLL4 is involved in the Notch signaling pathway as Notch ligand, which can activate NOTCH1 and NOTCH4. DLL4 is involved in angiogenesis and negatively regulates endothelial cell proliferation and migration and angiogenic sprouting. DLL4 can bind to Notch-1 and Notch-4.

### Clinical and Translational Updates

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