

**Synonym**

DLL1,Delta1,H-Delta-1

**Source**

Human DLL1, His Tag(DL1-H52H8) is expressed from human 293 cells (HEK293). It contains AA Gln 18 - Gly 540 (Accession # [NP\\_005609](#)).

Predicted N-terminus: Gln 18

**Molecular Characterization**

DLL1(Gln 18 - Gly 540)  
NP\_005609 Poly-his

This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 58.4 kDa. The protein migrates as 55-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH 7.5 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.*

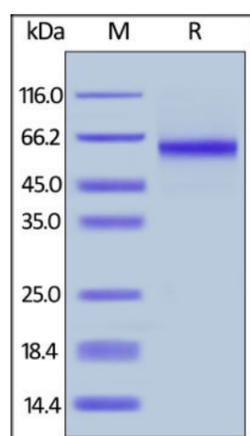
**Storage**

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

*Please avoid repeated freeze-thaw cycles.*

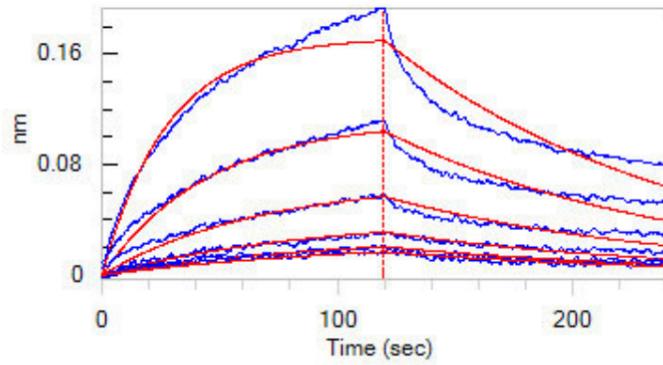
This product is stable after storage at:

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

**SDS-PAGE**

Human DLL1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

**Bioactivity-BLI**



Loaded Human NOTCH1, Fc Tag (Cat. No. NO1-H5255) on Protein A Biosensor, can bind Human DLL1, His Tag (Cat. No. DL1-H52H8) with an affinity constant of 290 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

### Background

Delta-like protein 1 (DLL1) is also known as Drosophila Delta homolog 1 (Delta1 or H-Delta-1), which contains one DSL domain and eight EGF-like domains. DLL1 is ubiquitinated by MIB (MIB1 or MIB2), leading to its endocytosis and subsequent degradation. As for expression, DLL1 is expressed in heart and pancreas, with lower expression in brain and muscle and almost no expression in placenta, lung, liver and kidney. Furthermore, DLL1 acts as a ligand for Notch receptors. Also, DLL1 can block the differentiation of progenitor cells into the B-cell lineage while promoting the emergence of a population of cells with the characteristics of a T-cell/NK-cell precursor.

### Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.