

Bioactive

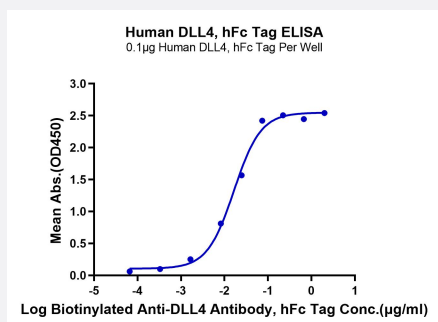
HuPro®

DLL4 (Human) Recombinant Protein

Catalog # P9922

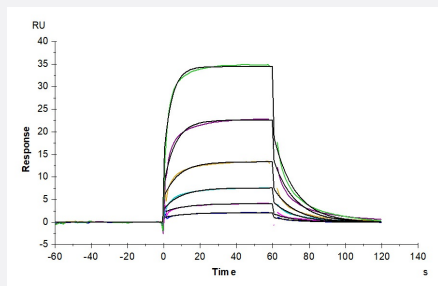
Size 100 ug

Applications



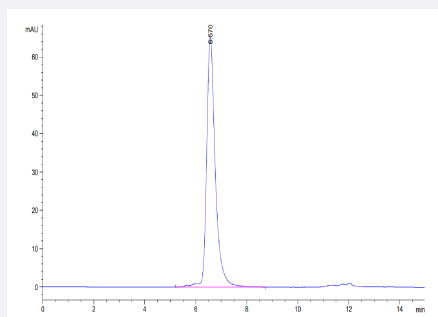
Enzyme-linked Immunoabsorbent Assay

Immobilized Human DLL4, hFc Tag at 1 ug/mL (100 uL/Well) on the plate. Dose response curve for Biotinylated Anti-DLL4 Antibody, hFc Tag with the EC50 of 16.5 ng/mL determined by ELISA (QC Test).



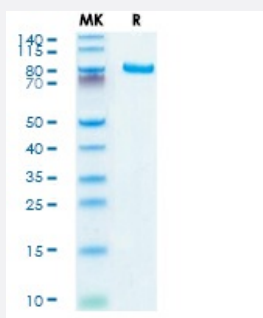
Surface Plasmon Resonance

Human DLL4, hFc Tag captured on CM5 Chip via Protein A can bind Human Notch 1, His Tag with an affinity constant of 0.48 uM as determined in SPR assay (Biacore T200).



SEC-HPLC

The purity of- Human DLL4 is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

Human DLL4 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.

Specification

Product Description	Human DLL4 (Q9NR61, Ser27-Pro524) partial recombinant protein with hFc tag at C-Terminus expressed in HEK293 cells.
Sequence	Ser27-Pro524
Host	Human
Theoretical MW (kDa)	81.09999999999998
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC ₅₀ was 16.5 ng/mL, measured by ELISA at 1 ug/mL. The affinity constant of 0.48 uM as determined in SPR assay (Biacore T200).
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human DLL4 is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human DLL4 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE SPR The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Enzyme-linked Immunoabsorbent Assay

Immobilized Human DLL4, hFc Tag at 1 ug/mL (100 uL/Well) on the plate. Dose response curve for Biotinylated Anti-DLL4 Antibody, hFc Tag with the EC50 of 16.5 ng/mL determined by ELISA (QC Test).

- Functional Study

- SDS-PAGE

- Surface Plasmon Resonance

Human DLL4, hFc Tag captured on CM5 Chip via Protein A can bind Human Notch 1, His Tag with an affinity constant of 0.48 uM as determined in SPR assay (Biacore T200).

Gene Info — DLL4

Entrez GeneID	54567
Protein Accession#	Q9NR61
Gene Name	DLL4
Gene Alias	MGC126344, hdelta2
Gene Description	delta-like 4 (Drosophila)
Omim ID	605185
Gene Ontology	Hyperlink
Gene Summary	This gene is a homolog of the Drosophila delta gene. The delta gene family encodes Notch ligands that are characterized by a DSL domain, EGF repeats, and a transmembrane domain. [provided by RefSeq]
Other Designations	delta 4 delta ligand 4 delta-like 4 homolog delta-like 4 protein notch ligand DLL4 notch ligand delta-2

Pathway

- [Notch signaling pathway](#)