RP00312

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Recombinant Human DLL4 Protein

Catalog No.: RP00312 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	54567	Q9NR61

Tags
C-hFc

Synonyms
DLL4; MGC126344; notch ligand DLL4; Delta4; Delta-like 4

Product Information

Source	Purification
<I>E. coli</I>	> 95% by SDS-PAGE ; > 95% by HPLC

Endotoxin
< 1 EU/μg of the protein by LAL method

Formulation
Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Delta-like protein 4 (DLL4) is a type I membrane protein belonging to the Delta/Serrate/Lag2 (DSL) family of Notch ligands. Activates NOTCH1 and NOTCH4. Involved in angiogenesis; negatively regulates endothelial cell proliferation and migration and angiogenic sprouting. Essential for retinal progenitor proliferation. Required for suppressing rod fates in late retinal progenitors as well as for proper generation of other retinal cell types (By similarity). During spinal cord neurogenesis, inhibits V2a interneuron fate.

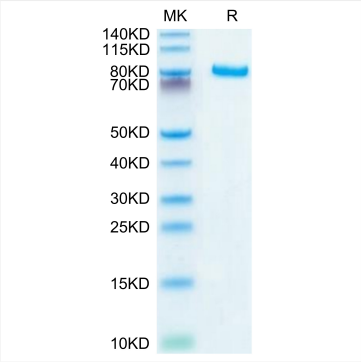
Basic Information

Description
Recombinant Human DLL4 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser27-Pro524) of Human DLL4 (Accession #Q9NR61) fused with a C-hFc tag at the C-terminus.

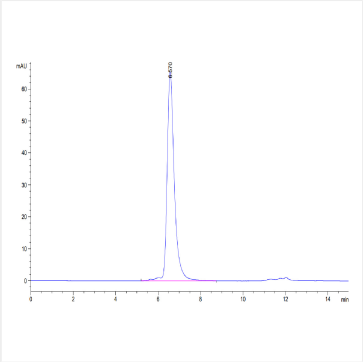
Bio-Activity

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

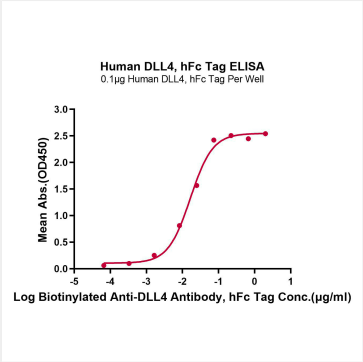
Validation Data



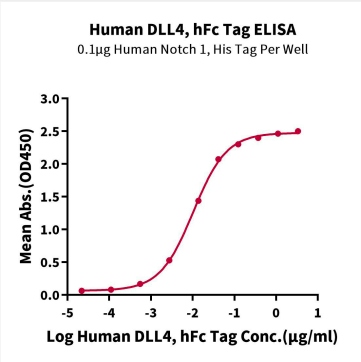
Human DLL4 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.



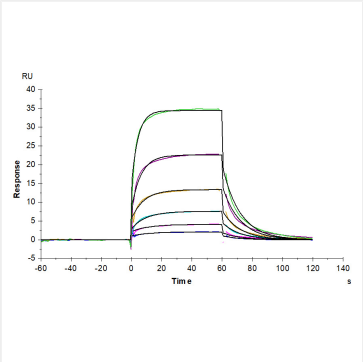
The purity of Human DLL4 is greater than 95% as determined by SEC-HPLC.



Immobilized Human DLL4, hFc Tag at 1 μg/mL (100 μL/Well) on the plate. Dose response curve for Biotinylated Anti-DLL4 Antibody, hFc Tag with the EC_{50} of 16.5ng/mL determined by ELISA (QC Test).



Immobilized Human Notch 1, His Tag at 1 μg/mL (100 μL/well) on the plate. Dose response curve for Human DLL4, hFc Tag with the EC_{50} of 10.3ng/mL determined by ELISA.



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 μM as determined in SPR assay (Biacore T200).