

Biotinylated Recombinant Human DLL4 Protein

Catalog No.: RP00313B Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 54567 O9NR61

Tags

C-His&Avi

Synonyms

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

Product Information

Source

Purification

HEK293 cells ≥ 95 % as determined by SDS-

PAGE;≥ 95 % as determined by HPLC.

Calculated MW Observed MW

55.7 kDa 62-68 kDa

Endotoxin

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

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 200 mM L-arginine (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

Biotinylated 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-His&Avi tag at the C-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

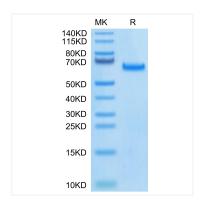
After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

Avoid repeated freeze/thaw cycles.

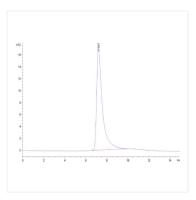
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

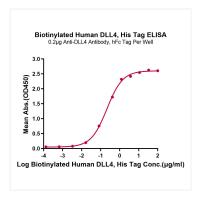
Validation Data



Biotinylated Recombinant Human DLL4 Protein was determined by Tris-Bis PAGE under reducing conditions.



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



Immobilized Anti-DLL4 Antibody, hFc Tag at 2 μ g/mL (100 μ L/Well) on the plate. Dose response curve for Biotinylated Human DLL4, His Tag with the EC₅₀ of 0.21 μ g/mL determined by ELISA.