

DLL4 Protein, Human, Recombinant (hFc) V2

General Information

Synonyms:	δ -like 4 (Drosophila);hdelta2;Delta-like 4;h δ 2; δ -like 4;delta-like 4 (Drosophila)
Protein Construction:	Ser27-Pro524
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9NR61
Molecular Weight:	81.1 kDa (Predicted); 82-90 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human DLL4, hFc Tag at 1 μ g/ml (100 μ l/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). 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 μ M as determined in SPR assay (Biacore T200).
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μ g/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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

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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.

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