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## Recombinant Human DLL1/Delta-1 Protein (His Tag)

Catalog No. PKSH033699

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### **Description**

Synonyms Delta-like protein 1;Drosophila Delta homolog 1;Delta1;H-

Delta-1;DLL1;DELTA1;DL1

Species Human

Expression Host HEK293 Cells
Sequence Gln18-Gly540
Accession O00548
Calculated Molecular Weight 57.3 kDa
Observed molecular weight 65 kDa

**Bioactivity** Not validated for activity

### **Properties**

Tag

**Purity** > 95 % as determined by reducing SDS-PAGE.

C-His

**Endotoxin** < 1.0 EU per μg of the protein as determined by the LAL method.

**Storage** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from a 0.2 µm filtered solution of 20mM HEPES, 150mM NaCl, 1mM

EDTA, pH 7.4.

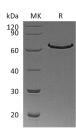
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

# Background

## For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

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### **Elabscience Bionovation Inc.**



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Delta-like protein 1 (DLL1) is a type I transmembrane protein that belongs to the Delta/Serrate/Lag2 (DSL) family of Notch ligands. Mature human DLL1 consists of a 528 amino acid (aa) extracellular domain (ECD) with one DSL domain and eight EGF-like repeats, a 23 aa transmembrane segment, and a 155 aa cytoplasmic domain. Within the ECD, human DLL1 shares 91% aa sequence identity with mouse and rat DLL1. The residual membranebound portion of DLL1 can be cleave by presenilin-dependent γ-secretase, enabling the cytoplasmic domain to migrate to the nucleus. DLL1 localizes to adherens junctions on neuronal processes through its association with the scaffolding protein MAGI1. DLL1 is widely expressed, and it plays an important role in embryonic somite formation, cochlear hair cell differentiation, plus B and T lymphocyte differentiation. The upregulation of DLL1 in arterial endothelial cells following in jury or angiogenic stimulation is central to postnatal arteriogenesis. DLL1 is also overexpressed in cervical carcinoma and glioma and contributes to tumor progression.

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