

Delta-like protein 1/DLL1 Protein, Human (HEK293, His)

| Cat. No.: | HY-P7841 | | | |
|-------------------|--|--|--|--|
| Synonyms: | rHuDelta-like protein 1/DLL1, His; Delta-like protein 1; Drosophila Delta homolog 1; Delta1; H- Delta-1; DLL1 | | | |
| Species: | Human | | | |
| Source: | HEK293 | | | |
| Accession: | O00548 (Q18-G540) | | | |
| Gene ID: | 28514 | | | |
| Molecular Weight: | Approximately 65.0 kDa | | | |

PROPERTIES

| AA Sequence | | | | | | |
|--|--|--|------------|---------------------|--|--|
| /www.ocquence | QVWSSGVFEL | KLQEFVNKKG | LLGNRNCCRG | GAGPPPCACR | | |
| | TFFRVCLKHY | QASVSPEPPC | TYGSAVTPVL | G V D S F S L P D G | | |
| | GGADSAFSNP | IRFPFGFTWP | GTFSLIIEAL | H T D S P D D L A T | | |
| | ENPERLISRL | ATQRHLTVGE | EWSQDLHSSG | RTDLKYSYRF | | |
| | VCDEHYYGEG | CSVFCRPRDD | AFGHFTCGER | GEKVCNPGWK | | |
| | GPYCTEPICL | PGCDEQHGFC | DKPGECKCRV | GWQGRYCDEC | | |
| | IRYPGCLHGT | CQQPWQCNCQ | EGWGGLFCNQ | D L N Y C T H H K P | | |
| | СКNGATCTNT | GQGSYTCSCR | PGYTGATCEL | GIDECDPSPC | | |
| | KNGGSCTDLE | NSYSCTCPPG | FYGKICELSA | МТСАДСРГ | | |
| | GGRCSDSPDG | GYSCRCPVGY | SGFNCEKKID | YCSSSPCSNG | | |
| | AKCVDLGDAY | LCRCQAGFSG | RHCDDNVDDC | ASSPCANGGT | | |
| | CRDGVNDFSC | TCPPGYTGRN | CSAPVSRCEH | АРСНИБАТСН | | |
| | ERGHRYVCEC | ARGYGGPNCQ | FLLPELPPGP | AVVDLTEKLE | | |
| | G Q G | | | | | |
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| Appearance | Lyophilized powder. | | | | | |
| - 1.4 | | | | | | |
| Formulation | Lyophilized from a 0.2 μm filtered solution of 20 mM Hepes, 150 mM NaCl, 1 mM EDTA, pH 7.4. | | | | | |
| For data and a formal | | | | | | |
| Endotoxin Level | <1 EU/µg, determined by LAL method. | | | | | |
| Reconsititution | | | | | | |
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| recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). | | | | | | |
| Storage & Stability | Starad at 20°C for 2 years After reconstitution it is stable at 4°C for 1 weak or 20°C for langer (with semi-restain) this | | | | | |
| Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier | | | | | | |
| | recommended to neeze allq | recommended to freeze aliquots at -20°C or -80°C for extended storage. | | | | |
| Shipping | Doom tomporaturo in contin | aantal US, mayyaan, alaawk | uoro. | | | |
| Subburg | Room temperature in continental US; may vary elsewhere. | | | | | |

DESCRIPTION

Background

Delta-like protein 1 (DLL1) functions as a transmembrane ligand protein for NOTCH1, NOTCH2, and NOTCH3 receptors, engaging in both cis and trans interactions with the extracellular domain (ECD) of Notch receptors. Upon transinteraction, ligand cells exert mechanical force through clathrin-mediated endocytosis, involving ligand ubiquitination, EPN1 interaction, and actin polymerization. These events facilitate Notch receptor extracellular domain (NECD) transendocytosis, triggering Notch signaling, including cleavage, hyperphosphorylation, and nuclear accumulation of the intracellular domain of Notch receptors (NICD). DLL1 is vital for embryonic development, maintaining adult stem cells in various tissues and the immune system. Its involvement in intercellular communication regulates cell lineage, patterning, and morphogenesis, influencing differentiation and proliferation. In brain development, DLL1 plays a role in neuronal differentiation and neocortex development, while in cerebellar development, it regulates Bergmann glial monolayer formation. It also contributes to immune system development, muscle development, pancreatic cell development, arterial identity maintenance, angiogenesis, goblet cell differentiation, inner ear development, and nephron development through the Notch signaling pathway. DLL1 functions as a homodimer and interacts with various proteins, orchestrating a diverse array of cellular processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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