

## 32-8850: Recombinant Human Delta-like Protein 4/DLL4 (C-10His)(Discontinued)

**Gene :** DLL4  
**Gene ID :** 54567  
**Uniprot ID :** Q9NR61

### Description

Source: Human Cells.  
MW :55.7kD.

Recombinant Human Delta-like Protein 4 is produced by our expression system and the target gene encoding Ser27-Pro524 is expressed Delta-like protein 4 (DLL4) is a type I membrane protein belonging to the Delta/Serrate/Lag2 (DSL) family of Notch ligands. In mammals, four Notch homologs (Notch 1 to 4) and five ligands (DLL 1, 3 and 4, Jagged 1 and 2) have been identified. DLL4 is expressed highly and selectively within the arterial endothelium and has been shown to function as a ligand for Notch 1 and Notch 4. Human and mouse DLL4 shares 86% amino acid sequence identity. Notch ligands are transmembrane proteins with a DSL motif necessary for Notch binding, tandem EGF repeats, a transmembrane region and a short intracellular domain (ICD). Notch ligands are categorized into two subfamilies based on the presence of an extracellular cysteine-rich domain and insertions that interrupt some EGF repeats in the Jagged but not the Delta ligand family. Interactions of Notch receptors with their ligands result in reciprocal regulated intramembrane proteolysis (RIP). RIP is a mechanism for transmembrane signal transduction that involves the sequential processing by a disintegrin metalloprotease (ADAM) and then by presenilin/ gamma secretase, resulting in shedding of the extracellular domains and the generation of the soluble ICD signaling fragments, respectively.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM Tris, 150mM NaCl, pH 8.0.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** SGVFQLQLQEFINERGVLASGRPCPGCRTFFRVCLKHFQAVVSPGPCTFGTVSTPVLGTNSFAVRDDSSGGG  
RNPLQLPFNFTWPGTFSLIIEAWHAPGDDLRLPEALPPDALISKIAIQGSLAVGQNWLLDEQTSTLTRLRYSYRVIC  
SDNYGDNCSRLCKKRNDHFGHYVCQPDGNLSCLPGWTGEYCQQPICLSGCHEQNGYCSKPAECLCRPGWQ  
GRLCNECIPHNGCRHGTCTPWQCTCDEGWGGLFCDQDLNYCTHHSPCKNGATCSNSGQRSYTCTCRPGYT  
GVDCELELSECDSPNCRNGGSKDQEDGYHCLCPPGYGLHCEHSTLSCADSPCFNGGSCRERNQOGANYAC  
ECPPNFTGSNCEKKVDRCTSNPCANGGQCLNRGSPRMCRCPGFTGTCELHVSDCARNPCAHHGGTCHDLE  
NGLMCTCPAGFSGRRCEVRTSIDACASSPCFNATCYTDLSTDTFVCNCPYGFVSGRCEFPVGLPHHHHHHHHH  
HH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.