

Product datasheet for **TP726735**

DLL4 Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human DLL4 (C-Fc)
Species:	Human
Expression cDNA Clone or AA Sequence:	Ser27-Pro524
Tag:	C-Fc
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH7.4.
Note:	Recombinant Human Delta-like Protein 4 is produced by our Mammalian expression system and the target gene encoding Ser27-Pro524 is expressed with a Fc tag at the C-terminus.
Stability:	12 months from date of despatch
Locus ID:	54567
UniProt ID:	Q9NR61
Summary:	<p>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 to4) 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/ $\hat{\text{P}}^3$ secretase, resulting in shedding of the extracellular domains and the generation of the soluble ICD signaling fragments, respectively.</p>



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