

Product datasheet for **TP727232**

Cadherin 16 (CDH16) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Cadherin-16/CDH16 (C-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Pro18-Ala786
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
Note:	Recombinant Human Cadherin-16 is produced by our Mammalian expression system and the target gene encoding Pro18-Ala786 is expressed with a 6His tag at the C-terminus.
Storage:	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.
Stability:	12 months from date of despatch
Locus ID:	1014
UniProt ID:	O75309
Synonyms:	CDH16;Cadherin-16;Kidney-specific cadherin;Ksp-cadherin
Summary:	Cadherin-16(CDH16) is a single-pass type I membrane protein which contains six cadherin domains. Mature cadherin proteins consist of a large N-terminal extracellular domain, a single membrane-spanning domain, and a small highly conserved C-terminal cytoplasmic domain. Cadherins are calcium-dependent cell adhesion proteins and may contribute to the sorting of heterogeneous cell types. They preferentially interact with themselves in a homophilic manner in connecting cells. Three calcium ions are usually bound at the interface of each cadherin domain and rigidify the connections, imparting a strong curvature to the full-length ectodomain. CDH16 is exclusively expressed in kidney, where the protein functions as the principal mediator of homotypic cellular recognition. It plays a role in the morphogenic direction of tissue development. CDH16 is composed of an extracellular domain containing 6 cadherin domains, a transmembrane region and a truncated cytoplasmic domain. However, it lacks the prosequence and tripeptide HAV adhesion recognition sequence typical of most classical cadherins.



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Protein Families: Transmembrane