

Recombinant Human PCDHA10 Protein, His-tagged

Cat. No. PCDHA10-1907H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PCDHA10 Protein (Gln29-Pro219) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gln29-Pro219
Description	This gene is a member of the protocadherin alpha gene cluster, one of three related gene clusters tandemly linked on chromosome five that demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The alpha gene cluster is composed of 15 cadherin superfamily genes related to the mouse CNR genes and consists of 13 highly similar and 2 more distantly related coding sequences. The tandem array of 15 N-terminal exons, or variable exons, are followed by downstream C-terminal exons, or constant exons, which are shared by all genes in the cluster. The large, uninterrupted N-terminal exons each encode six cadherin ectodomains while the C-terminal exons encode the cytoplasmic domain. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins that most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been observed and additional variants have been suggested but their full-length nature has yet to be determined.

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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 25.4 kDa Accurate Molecular Mass: 25 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.
GENE INFORMATION	
Gene Name	PCDHA10 protocadherin alpha 10 [Homo sapiens (human)]
Official Symbol	PCDHA10
Synonyms	PCDHA10; protocadherin alpha 10; CNRS8; protocadherin alpha-10; CNR8; CNRN8; CRNR8; KIAA0345 like 4; ortholog to mouse CNR8; PCDH ALPHA10; PCDH-alpha-10; KIAA0345-like 4; PCDH-ALPHA10;

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Gene ID	56139
mRNA Refseq	NM_018901
Protein Refseq	NP_061724
MIM	606316
UniProt ID	Q9Y5I2

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