

Recombinant Human PCDHGA7 Protein, His-tagged

Cat. No. PCDHGA7-2559H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PCDHGA7 Protein (Gly29-Val251) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gly29-Val251
Description	This gene is a member of the protocadherin gamma gene cluster, one of three related clusters tandemly linked on chromosome five. These gene clusters have an immunoglobulin-like organization, suggesting that a novel mechanism may be involved in their regulation and expression. The gamma gene cluster includes 22 genes divided into 3 subfamilies. Subfamily A contains 12 genes, subfamily B contains 7 genes and 2 pseudogenes, and the more distantly related subfamily C contains 3 genes. The tandem array of 22 large, variable region exons are followed by a constant region, containing 3 exons shared by all genes in the cluster. Each variable region exon encodes the extracellular region, which includes 6 cadherin ectodomains and a transmembrane region. The constant region exons encode the common cytoplasmic region. These neural cadherin-like cell adhesion proteins most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been described for the gamma cluster genes.

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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 28.5 kDa Accurate Molecular Mass: 29 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
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	PCDHGA7 protocadherin gamma subfamily A, 7 [Homo sapiens (human)]
Official Symbol	PCDHGA7
Synonyms	PCDHGA7; protocadherin gamma subfamily A, 7; PCDH-GAMMA-A7; protocadherin gamma-A7

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Gene ID	56108
mRNA Refseq	NM_018920
Protein Refseq	NP_061743
MIM	606294
UniProt ID	Q9Y5G6

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