

PCDH1 Protein, Human, Recombinant (His)

General Information

Synonyms:	PC42;PCDH1;Protocadherin-1;Cadherin-Like Protein 1;Protocadherin-42
Protein Construction:	Thr58-Asn852
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q08174
Molecular Weight:	120 KDa (reducing condition)
AA Sequence:	Thr58-Asn852

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM PB, 150 mM NaCl, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Protocadherin-1, also known as Cadherin-like protein 1, Protocadherin-42 and PCDH1, belongs to the protocadherin subfamily within the cadherin superfamily. PCDH1 contains seven cadherin-like domains, a transmembrane region and a C-terminal cytoplasmic region. PCDH1 can be detected as early as embryonic day 9.5. In early embryogenesis, expression is especially prominent in blood vessels. The tight spatial and temporal regulation of Pcdh1 expression suggests that this protocadherin plays multiple roles not only during development

but also in mature tissues and organs. In addition, protocadherin-1 is involved in cell-cell interaction processes and in neural cell adhesion.

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