



Recombinant Protein Technical Manual  
Recombinant Human Protocadherin/PCDH1 Protein  
(His Tag)  
RPES3443

Product Data:

**Product SKU:** RPES3443

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q08174

Protein Information:

**Molecular Mass:** 87.3 kDa

**AP Molecular Mass:** 120 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Protocadherin; Cadherin-Like Protein 1; Protocadherin-42; PC42; PCDH1

## Immunogen Information:

**Sequence:** Thr58-Asn852

## Background:

Protocadherin, 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 is involved in cell-cell interaction processes and in neural cell adhesion.