

## 32-7674: Recombinant Human Protocadherin-1/PCDH1 (C-6His)

**Gene :** PCDH1  
**Gene ID :** 5097  
**Uniprot ID :** Q08174

### Description

Source: Human Cells.  
MW :87.3kD.

Recombinant Human Protocadherin-1 is produced by our Mammalian expression system and the target gene encoding Thr58-Asn852 is expressed with a 6His tag at the C-terminus. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.  
**Storage condition :** 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.  
**Amino Acid :** TRVYKVPPEQPPNTLIGSLAADYGFPDVGHLYKLEVGAPYLRVDGKTGDIFFTETSIDREGLRECQNQLPGDPC ILEFEVSITDLVQNGSPRLLEGQIEVQDINDNTPNFASPVITLAIPENTNIGSLFPIPLASDRDAGPNGVASYELQA GPEAQELFGLQVAEDQEEKQQLIVMGNLDREWRDSDYDLTIKVQDGGSPPRASSALLRVTVLDTNDNAPKFER PSYEAELSENSPIGHSVIQVKANDSDQGANAIEYTFHQAPEVVRLLRLDRNTGLITVQGPVDREDLSTLRFVS LAKDRGTNPKSARAQVVVTVKMDNDNAPTIEIRGIGLVTHQDGMANISEDVAETAVALVQVSDRDEGENAAV TCVVAGDVPFQLRQASETGSDSKKKYFLQTTPLDYEKVKDYTIEIVAVDSGNPPLSSTNSLKVQVVDVNDNAP VFTQSVTEVAFPENNKPGEVIAEITASDADSGSNAELVYSLEPEPAKGLFTISPETGEIQVKTSLDREQRESYEL KVVAADRGSPSLQGTATVLNVLDNDNDPKFMLSGYNFSVMENMPALSPVGMVTVIDGDKGENAQVQLSV EQDNGDFVIQNGTGTLSSLSFDREQSTYTFQLKAVDGGVPPRSAYVGVTVINVLDENDNAPYITAPSNTSHKLL TPQTRLGETVSQVAAEDFDSGVNAELIYSIAGGNPYGLFQIGSHSGAITLEKEIERRHHGLHRLVVKVSDRGKPP RYGTALVHLYVNETLANRTLTLLGHSLDTPLDIDIAGDPEYERSKQRGNVDHHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.