

Recombinant Human Protocadherin-1/PCDH1 Protein (His Tag)



Catalog Number:PKSH032977

Note: Centrifuge before opening to ensure complete recovery of vial contents.

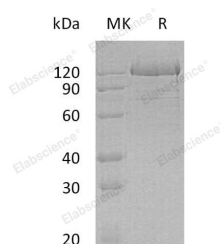
Description

Synonyms	Protocadherin-1;Cadherin-Like Protein 1;Protocadherin-42;PC42;PCDH1
Species	Human
Expression Host	HEK293 Cells
Sequence	Thr58-Asn852
Accession	Q08174
Calculated Molecular Weight	87.3 kDa
Observed molecular weight	120 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, 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. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed man
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

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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