

Catalog No.: RP01491 **Recombinant**

Species	Gene ID	Swiss Prot
Human	1001	P22223

C-His

CDH3:CDHP:HIMD:PCAD

Source	Purification
HEK293 cells	≥ 85 % as determined by SDS-PAGE

Calculated MW	Observed MW
60.86 kDa	70-80 kDa

< 1 EU/μg of the protein by LAL method.

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Cadherin-3 [also known as P-cadherin] is a classical cell-to-cell adhesion molecule with a homeostatic function in several normal tissues. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. In humans, cadherin-3 is only detected in a few organs. However, its overexpression is strongly associated with a poor prognosis in some solid tumors including breast, lung and pancreatic cancers.

Recombinant Human CDH3/P-cadherin Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp108-Gly654) of human CDH3/Cadherin-3 (Accession #NP_001784.2) fused with a 6×His tag at the C-terminus.

Measured by the ability of the immobilized protein to support the adhesion of A431 human epithelial carcinoma cells. When 1×10^5 cells/well are added to rhP-CAD/Fc Chimera coated plates (10 $\mu\text{g/mL}$ with 100 $\mu\text{L/well}$), approximately 50-60% will adhere after 1.5 hours at 37°C .

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

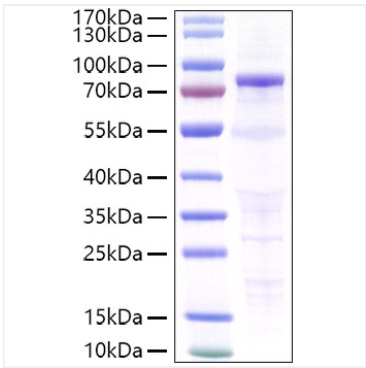
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Human CDH3/P-cadherin
Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.