



Recombinant Protein Technical Manual  
Recombinant Human Cadherin-3/CDH3 Protein (His  
Tag)  
RPES3822

#### Product Data:

**Product SKU:** RPES3822

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** AAH41846.1

#### Protein Information:

**Molecular Mass:** 70.4 kDa

**AP Molecular Mass:** 8810 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 90 % 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 PBS, pH7.4.

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

**Application:**

**Synonyms:** Cadherin-3; Placental Cadherin; P-Cadherin; CDH3; CDHP

## Immunogen Information:

**Sequence:** Glu25-Gly654

## Background:

Cadherin-3 (CDH3) is a single-pass type I membrane protein that belongs to the cadherin superfamily. CDH3 is a calcium-dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region, and a highly conserved cytoplasmic tail. CDH3 is expressed in some normal epithelial tissues and in some carcinoma cell lines. CDH3 preferentially interacts with themselves in a homophilic manner in connecting cells. CDH3 is involved in loss of heterozygosity events in breast and prostate cancer. Mutations in CDH3 have been associated with congenial hypotrichosis with juvenile macular dystrophy.