



Recombinant Protein Technical Manual
Recombinant Human E-Cadherin/CDH1 Protein (His
Tag)
RPES4314

Product Data:

Product SKU: RPES4314

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P12830

Protein Information:

Molecular Mass: 61.2 kDa

AP Molecular Mass: 80-90 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 PBS, pH 7.4.

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

Application:

Synonyms: Cadherin; CDH1; CAM 120/80; E-cadherin; CD324; CDHE; E-cad; E-Cadherin; ECAD; LCAM; UVO; Arc

Immunogen Information:

Sequence: Asp155-Ile707

Background:

E-Cadherin is a classical member of the cadherin superfamily. The encoded protein is a calcium-dependent cell-cell adhesion glycoprotein composed of five extracellular cadherin repeats, a transmembrane region, and a highly conserved cytoplasmic tail. Mutations in this gene are correlated with gastric, breast, colorectal, thyroid, and ovarian cancers. Loss of function is thought to contribute to progression in cancer by increasing proliferation, invasion, and/or metastasis. The ectodomain of this protein mediates bacterial adhesion to mammalian cells, and the cytoplasmic domain is required for internalization. Identified transcript variants arise from mutation at consensus splice sites. Also, E-Cadherin has a potent invasive suppressor role and it is a ligand for integrin alpha-E/beta-7.