

Cadherin 6/CDH6 Protein, Cynomolgus, Recombinant (His)

General Information

Synonyms:	Cadherin6; Cadherin-6; CDH6; CAD6; KCAD; K-cadherin
Protein Construction:	Thr22-Gly614
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	G7MUQ7
Molecular Weight:	67.10 kDa (predicted). Due to glycosylation, the protein migrates to 75-95 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Cynomolgus, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Anti-CDH6 Antibody, Rabbit IgG Tag with the EC50 of 96.4ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Cadherin 6 (CDH6) is an adhesion molecule localizing to the endometrial luminal epithelial cell surface in the mid-secretory/receptive phase and knockdown of CDH6 in the Ishikawa cells (receptive endometrial epithelial cell line) compromises cell integrity.

Reference

Zhou W, et al. Characterization of the role for cadherin 6 in the regulation of human endometrial receptivity. *Reprod Biol Endocrinol.* 2020 Jun 29;18(1):66. doi: 10.1186/s12958-020-00624-w. PMID: 32600462; PMCID: PMC7322878.

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