Human Cadherin-6 / KCAD / CDH6 (19-486) Protein, Fc Tag (MALS verified)

Catalog # CA6-H5253

Synonyms

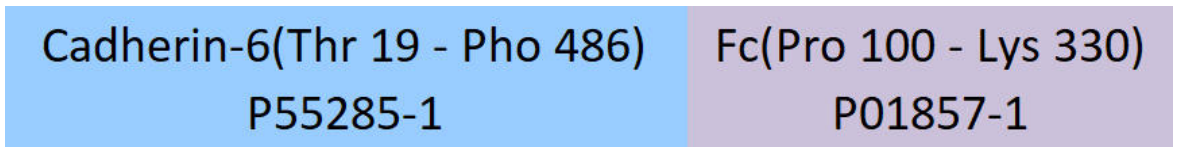
CDH6, CAD6, KCAD, K-cadherin, Cadherin-6

Source

Human Cadherin-6 (19-486) Protein, Fc Tag (CA6-H5253) is expressed from human 293 cells (HEK293). It contains AA Thr 19 - Pho 486 (Accession # P55285-1).

Predicted N-terminus: Thr 19

Molecular Characterization



This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 78.7 kDa. The protein migrates as 53 kDa, 70 kDa and 90-100 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

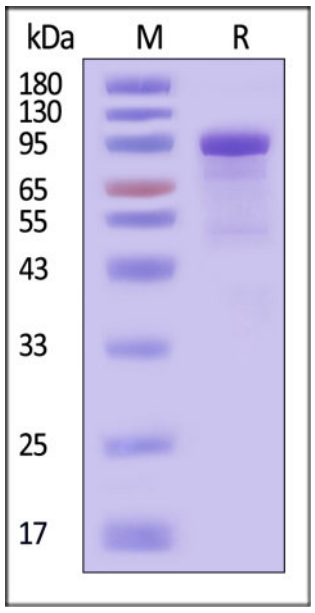
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

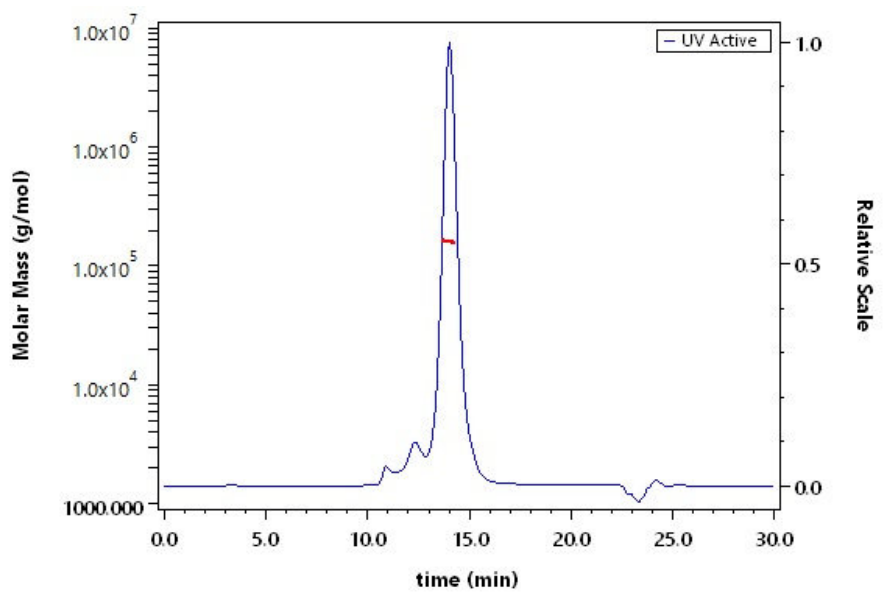
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

SDS-PAGE



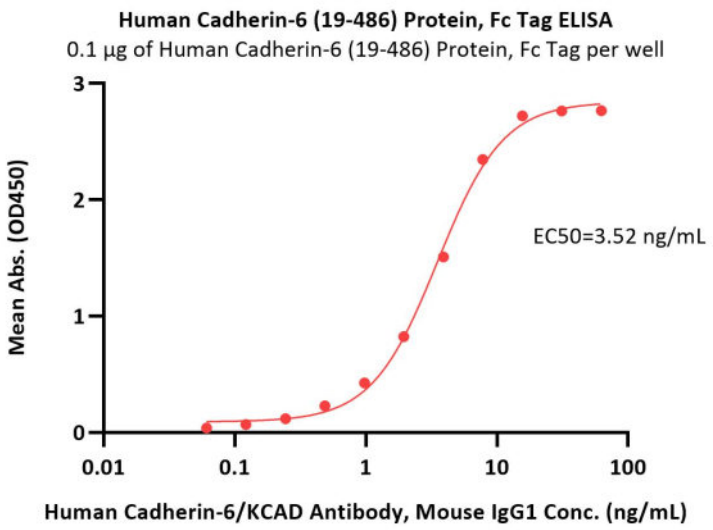
Human Cadherin-6 (19-486) Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS

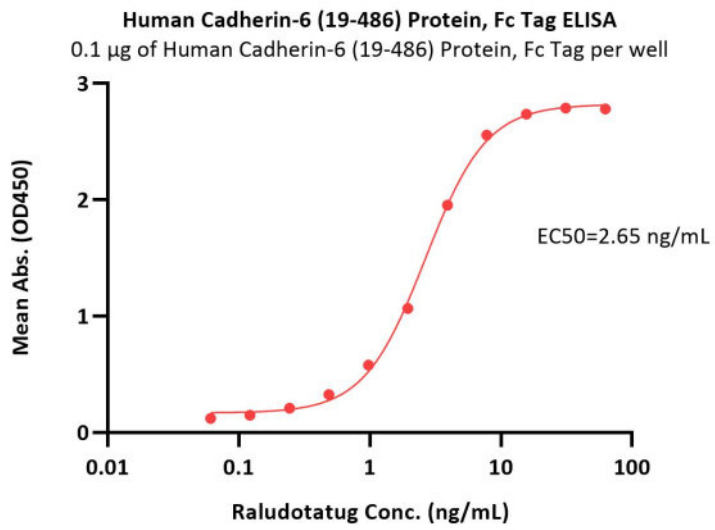


The purity of Human Cadherin-6 (19-486) Protein, Fc Tag (Cat. No. CA6-H5253) is more than 85% and the molecular weight of this protein is around 155-190 kDa verified by SEC-MALS.

Bioactivity-ELISA

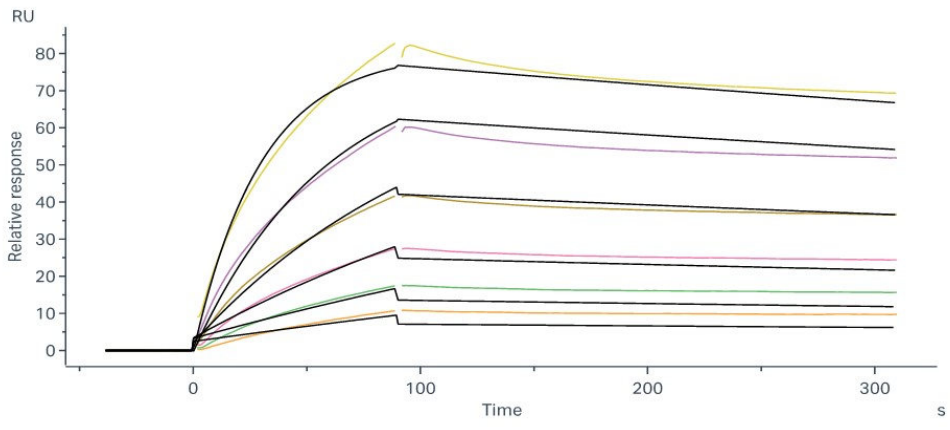


Immobilized Human Cadherin-6 (19-486) Protein, Fc Tag (Cat. No. CA6-H5253) at 1 μg/mL (100 μL/well) can bind Human Cadherin-6/KCAD Antibody, Mouse IgG1 with a linear range of 0.06-8 ng/mL (QC tested).

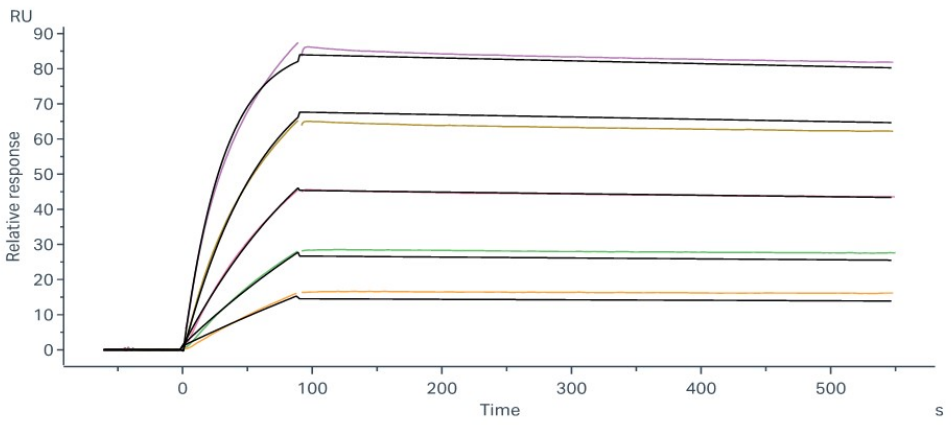


Immobilized Human Cadherin-6 (19-486) Protein, Fc Tag (Cat. No. CA6-H5253) at 1 μg/mL (100 μL/well) can bind Raludotatug with a linear range of 0.06-4 ng/mL (Routinely tested).

Bioactivity-SPR



Raludotatug immobilized on CM5 Chip can bind Human Cadherin-6 (19-486) Protein, Fc Tag (Cat. No. CA6-H5253) with an affinity constant of 9.7 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).



Human Cadherin-6/KCAD Antibody,Mouse IgG1 captured on CM5 chip via anti-mouse antibodies surface can bind Human Cadherin-6 (19-486) Protein, Fc Tag (Cat. No. CA6-H5253) with an affinity constant of 1.56 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

Cadherin-6 (CDH6) is also known as Kidney cadherin (K-cadherin or KCAD), is a a type II classical cadherin from the cadherin superfamily. Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the

sorting of heterogeneous cell types. CDH6 / KCAD contains five cadherin domains. CDH6 is highly expressed in brain, cerebellum, and kidney. Lung, pancreas, and gastric mucosa show a weak expression and also expressed in certain liver and kidney carcinomas.