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Recombinant Human N-Cadherin/CDH2 Protein

Catalog No.: RP01983 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	1000	P19022

Tags
C-hFC

Synonyms
CDH2; CDHN; NCAD;Cadherin-2; CDw325; Neural cadherin; N-cadherin; CD325

Background

N-Cadherin/CDH2□also known as N-Cadherin (neuronal) (NCAD), is a single-pass transmembrane protein and a cadherin containing 5 cadherin domains. N-Cadherin displays a ubiquitous expression pattern but with different expression levels between endocrine cell types. CDH2 (NCAD) has been shown to play an essential role in normal neuronal development, which is implicated in an array of processes including neuronal differentiation and migration, and axon growth and fasciculation. In addition, N-Cadherin expression was upregulated in human HSC during activation in culture, and function or expression blocking of N-Cadherin promoted apoptosis. During apoptosis, N-Cadherin was cleaved into 20-100 kDa fragments. It may provide a novel target for therapies that are directed toward intimal proliferative disorders, including restenosis and vascular bypass graft failure. N-Cadherin is associated with tumor aggressiveness and metastatic potential and may contribute to tumor progression.

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
87.74 KDa	100-140 kDa

Endotoxin
< 0.01 EU/μg of the protein by LAL method

Formulation
Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

Reconstitution
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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Basic Information

Description
Recombinant Human N-Cadherin/CDH2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp160-Ala724) of Human N-Cadherin/CDH2 (Accession #NP_001783.2) fused with hFC at the C-terminus.

Bio-Activity
Measured by the ability of the immobilized protein to support the adhesion of MCF-7 human breast adenocarcinoma cells. When cells are added to E-Cad coated plates (5 μg/mL, 100 μL/well), >24.62 % will adhere specifically after 90 minutes at 37 ℃.

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

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

Contact

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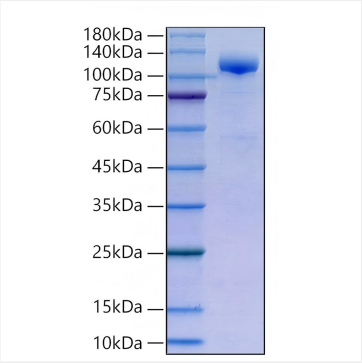
Validation Data



Recombinant Human N-Cadherin/CDH2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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