

Rat CDH13 / Cadherin-13 / H Cadherin Protein (His Tag)

Catalog Number: 80280-R08H



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Biological Solution Specialist

General Information

Gene Name Synonym:

CDHH; P105; 4932416G01Rik; Cdht; T-cadherin; Tcad

Protein Construction:

A DNA sequence encoding the rat CDH13(NP_620244.1)(Met1-Ala692) was expressed with a polyhistidine tag at the C-terminus.

Source: Rat

Expression Host: Human Cells

QC Testing

Purity: (69.0+26.9) % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Ala 22

Molecular Mass:

The recombinant rat CDH13 comprises 682 amino acids and predicts a molecular mass of 74.9 kDa. The apparent molecular mass of the recombinant protein is approximately 117 and 95 kDa in SDS-PAGE under reducing conditions due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

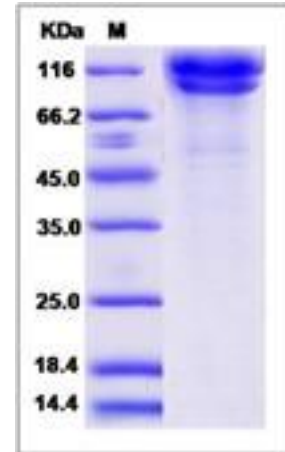
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

CDH13, also known as cadherin-13 and H Cadherin, is a member of the cadherin superfamily. CDH13 acts as a negative regulator of axon growth during neural differentiation. It also protects vascular endothelial cells from apoptosis due to oxidative stress, and is associated with resistance to atherosclerosis. CDH13 is localized to the surface of the cell membrane and is anchored by a GPI moiety, rather than by a transmembrane domain. CDH13 gene is hypermethylated in many types of cancer.

References

- 1.Hart AB. et al., 2012, PLoS One. 7 (8): e42646.
- 2.Xu J. et al., 2012, BMC Cancer. 12: 243.
- 3.Jo J. et al., 2012, Obesity (Silver Spring). 20 (8): 1683-7.

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