Rat Cadherin-15 / CDH15 Protein (Fc Tag)

Catalog Number: **80281-R02H**

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Biological Solution Specialist

General Information

Gene Name Synonym:

CDH14; CDH3; CDHM; MCAD; MRD3; AI323380; Cdh14; Mcad

Protein Construction:

A DNA sequence encoding the rat CDH15 (Q75NI5) (Met1-Gly602) was expressed, fused with the Fc region of human IgG1 at the C-terminus.

Source: Rat

Expression Host: Human Cells

QC Testing

Purity: > 92 % 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 ℃

Predicted N terminal: Val 22

Molecular Mass:

The recombinant rat CDH15 /Fc comprises 822 amino acids and has a predicted molecular mass of 90.6 kDa. The apparent molecular mass of the protein is approximately 118 kDa in SDS-PAGE under reducing conditions.

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:

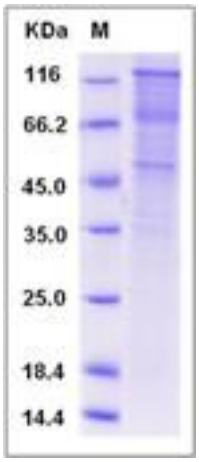
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Cadherin-15, also known as CDH15, is a member of the cadherin superfamily. Cadherins consist of an extracellular domain containing 5 cadherin domains, a transmembrane region, and a conserved cytoplasmic domain. 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. Cadherin-15 contains 5 cadherin domains. It is expressed in some normal epithelial tissues and in some carcinoma cell lines. Defects in CDH3 are the cause of ectodermal dysplasia with ectrodactyly and macular dystrophy (EEM), also known as EEM syndrome, Albrectsen-Svendsen syndrome or Ohdo-Hirayama-Terawaki syndrome. Ectodermal dysplasia defines a heterogeneous group of disorders due to abnormal development of two or more ectodermal structures. EEM is an autosomal recessive condition characterized by features of ectodermal dysplasia such as sparse eyebrows and scalp hair, and selective tooth agenesis associated with macular dystrophy and ectrodactyly.

References

1.Shibata T, *et al*. (1997) Identification of human cadherin-14, a novel neurally specific type II cadherin, by protein interaction cloning. J Biol Chem. 272(8):5236-40.
2.Bornemann A, *et al*. (1994) Immunocytochemistry of M-cadherin in mature and regenerating rat muscle. Anat Rec. 239(2):119-25.
3.Donalies M, *et al*. (1991) Expression of M-cadherin, a member of the cadherin multigene family, correlates with differentiation of skeletal muscle cells. Proc Natl Acad Sci. 88(18):8024-8.