Data Sheet (Cat.No.TMPY-03823)

TargetMol

H Cadherin Protein, Rat, Recombinant (hFc)

General Information

Synonyms:	cadherin 13
Protein Construction:	A DNA sequence encoding the rat CDH13 (NP_620244.1)(Met1-Ala692) was expressed with the Fc region of human IgG1 at the C-terminus. Predicted N terminal: Ala 22
Species:	Rat
Expression Host:	HEK293 Cells
Accession:	Q8R490
Molecular Weight:	100.5 kDa (predicted); 102 and 52 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE
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 25 mM MES, 0.15M NaCl, pH 6. 5. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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

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.

Reference

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

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