

## Active Recombinant Mouse Cdh1 Protein

**Cat. No.** Cdh1-1719M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Cdh1 protein without tag, was expressed in NSO Cells.
<b>Species</b>	Mouse
<b>Source</b>	Mammalian Cells
<b>Description</b>	Cadherin 1, type 1, E-cadherin (epithelial), also known as CDH1 and CD32, is a tumor suppressor gene. The encoded protein is a calcium dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. E-cadherin-mediated cell-cell adhesion pathway may represent a novel chemotherapeutic target for bladder cancer, prostate cancer, and renal-cell carcinoma.
<b>Form</b>	Lyophilized
<b>Bio-activity</b>	<p>The biological activity of Mouse E-CAD was determined by the ability of the immobilized protein to support the adhesion of the MCF7 human breast adenocarcinoma cells. When <math>5 \times 10^4</math> cells/well are added to rmECAD/Fc Chimera coated plates (1.5 µg/ml with 100 µl/well), approximately 50-70% will adhere after 90 minutes at room temperature.</p> <p>Each investigator should determine their own optimal working dilution for specific applications.</p>
<b>Molecular Mass</b>	The predicted molecular weight of Recombinant Mouse ECAD is Mr 88.2 kDa (monomer). However, the actual molecular weight as observed by migration on SDS

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Page is Mr 120 kDa.

**AA Sequence**

dwvippiscpenekgefpknlvqiksnrdketkvfysitgggadkppvgvfieretgwlvkvtqpldreaiakyilyshavs  
 sngaeavdpmeivitvtdqndnrpeftqevfegsvaegavpgtsvmkvsatdadddvntynaaiaytivsqdpelph  
 knmftvnrtdgvisvltsldresyptylvqaadlqgegilsttakavitvkdindnapvfnpstyqqgpenevnariatl  
 kvtdddapntpawkavytvvndpdqqfvvvdptndgilktakgldfeakqqyilhvrveneepfegslvpstatvtvd  
 vdvneapifmpaerrvepedfgvgqeitsytarepdtfmdqkityriwrtdanwleinetgaiftraemdredaeh  
 vknstyvaliiatddgspiatgtgllvldvndnapipeprnmqfcqrnpqphiitildpdlppntspftaelthgasvnwti  
 eyndaaqeslilqprkdleigeykihkladnqnkdqvtlldvhvcdcegtvnncmkagivaaglviegrmdpkscdk  
 thtccppapellggpsvflfppkpkdtlmisrtepvctvvdvshedpevkfnwyvdgvevhnaktkpreeqynstyr  
 vsvltvlhqdwlingkeykckvsnkalpapiektiskakgpprepqvytlppsrdeltknqvsltclvkgfypsdiavewe  
 sngqpennykttppvltdsgsfflyskltvdksrwqqgnvfscsvmhealthnhytqkslsispghhhhhh

**Endotoxin**

<1.0 EU/µg as determined by the LAL method

**Purity**

>90% by SDS-PAGE and analyzed by silver stain.

**Notes**

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

**Storage**

This lyophilized protein is stable for six to twelve months when stored desiccated at -20 centigrade to -70 centigrade. After aseptic reconstitution, this protein may be stored at 2 centigrade to 8 centigrade for one month or at -20 centigrade to -70 centigrade in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

**Storage Buffer**

This recombinant protein was 0.2 µm filtered and lyophilized from a sterile solution containing 50mM Tris-Citrate, 50 mM NaCl and 2 mM CaCl<sub>2</sub>, pH 6.5.

**GENE INFORMATION**

**Gene Name**

Cdh1

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<b>Official Symbol</b>	<a href="#">Cdh1 cadherin 1 [ Mus musculus (house mouse) ]</a>
<b>Synonyms</b>	Cdh1; cadherin 1; Um; UVO; Ecad; ARC-1; E-cad; L-CAM; AA960649; cadherin-1; E-cadherin; epithelial cadherin; uvomorulin
<b>Gene ID</b>	<a href="#">12550</a>
<b>mRNA Refseq</b>	<a href="#">NM_009864</a>
<b>Protein Refseq</b>	<a href="#">NP_033994</a>

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