# Recombinant Human CDH11 protein, His & GST-tagged

**Cat. No.** CDH11-1538H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human CDH11 aa. (Val374~Cys595) fused with N-terminal His & GST tag was produced in E. coli cells. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | Val374~Cys595 |
| **Description** | This gene encodes a type II classical cadherin from the cadherin superfamily, integral membrane proteins that mediate calcium-dependent cell-cell adhesion. Mature cadherin proteins are composed of a large N-terminal extracellular domain, a single membrane-spanning domain, and a small, highly conserved C-terminal cytoplasmic domain. Type II (atypical) cadherins are defined based on their lack of a HAV cell adhesion recognition sequence specific to type I cadherins. Expression of this particular cadherin in osteoblastic cell lines, and its upregulation during differentiation, suggests a specific function in bone development and maintenance. |
| **Form** | Freeze-dried powder |
| **Molecular Mass** | 55kDa as determined by SDS-PAGE reducing conditions. |
| **Endotoxin** | <1.0EU per 1μg (determined by the LAL method). |
| **Purity** | >95% |

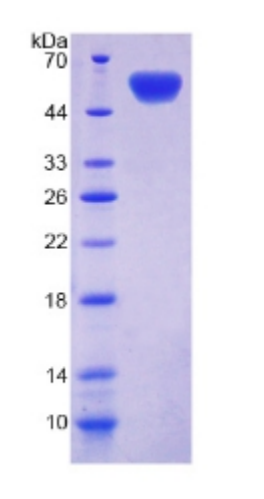
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| **Characteristic** | The isoelectric point is 5.8. |
| **Applications** | Positive Control; Immunogen; SDS-PAGE; WB. |
| **Stability** | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| **Storage** | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months. |
| **Concentration** | 200μg/mL |
| **Storage buffer** | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300. |
| **Reconstitution** | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex. |

## GENE INFORMATION

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| **Gene Name** | CDH11 cadherin 11 [ Homo sapiens (human) ] |
| **Official Symbol** | CDH11 |
| **Synonyms** | OB; CAD11; CDHOB; OSF-4; cadherin 11, type 2, OB-cadherin (osteoblast); cadherin-11 |
| **Gene ID** | 1009 |

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| **mRNA Refseq** | NM_001308392.1 |
| **Protein Refseq** | NP_001295321.1 |
| **UniProt ID** | P55287 |
| **SDS-PAGE** |  |



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