Recombinant Human CDH11 Protein, His Tagged

Cat. No. CDH11-11187H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Cadherin-11 Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Gly 54-Thr 617 (Accession # P55287-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Gly 54
Species	Human
Source	HEK293
ProteinLength	54-617 aa
Description	Cadherin-11 is a type II cadherin which mediates cell-to-cell homophilic interactions. Cadherin-11 is mainly expressed on mesenchymal cells and is essential for tissue migration and organization during embryogenesis, while its expression on epithelial cancer cells is implicated in tumor progression and metastasis suggesting a potential role in the epithelial-to-mesenchymal transition phenomenon. Expression of this particular cadherin in osteoblastic cell lines, and its upregulation during differentiation, suggests a specific function in bone development and maintenance. In addition, cadherin-11 has been shown to increase the invasive capacity of Fibroblast-like Synoviocytes (FLS) and consequently be involved in the formation of the rheumatoid pannus.
Form	Lyophilized from 0.22 μm filtered solution in PBS, 0.5 M Arginine, pH7.4 with trehalose as protectant.
Molecular Mass	The protein has a calculated MW of 63.8 kDa. The protein migrates as 65-80 kDa

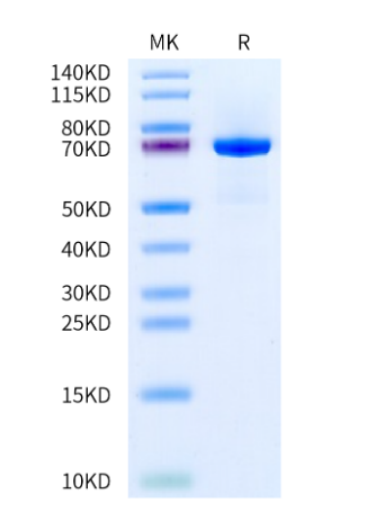
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	when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CDH11 cadherin 11, type 2, OB-cadherin (osteoblast) [Homo sapiens (human)]
Official Symbol	CDH11
Synonyms	CDH11; cadherin 11, type 2, OB-cadherin (osteoblast); cadherin-11; CAD11; OB; OB Cadherin; CDHOB; OSF-4;
Gene ID	1009
mRNA Refseq	NM_001797
Protein Refseq	NP_001788

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MIM	600023
UniProt ID	P55287
SDS-PAGE	

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