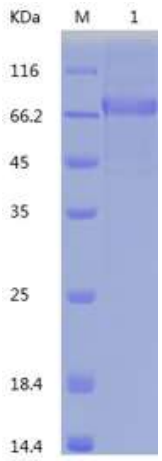
Recombinant Human Cadherin-11/CDH11 (C-His)

Catalog No: BP170

Description	Recombinant Human Cadherin-11 is produced by our Mammalian expression system and the target gene encoding Phe23-Thr617 is expressed with a 6His tag at the C-terminus.
Expression System	Human cells
Alternative name	Cadherin 11 Type 2 OB-cadherin (Osteoblast); Cadherin 11 Type 2 OB-Cadherin (Osteoblast)Isoform CRA_c; CDH11
Accession No.	Q96CZ9
Predicted Molecular Weight	66.4kDa
Apparent Molecular Weight	66.2-116kDa
Quality Control	Purity: greater than 95% as determined by reducing SDS-PAGE. Endotoxin: less than 0.1 ng/μg (1 EU/μg) as determined by TAL test.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB,150mM NaCl,pH7.4
Reconstitution	It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Background	Cadherin-11 is a type II classical cadherin member of the cadherin superfamily of integral membrane proteins that mediate calcium-dependent cell-cell adhesion. Cadherin-11 is expressed in embryonic mesodermal tissues and facilitates the morphogenesis of the nervous and skeletal systems. Cadherins play roles in multiple processes including embryonic development, cell migration, and maintenance of epithelial integrity. Cadherins interact with themselves in a homophilic manner in connecting cells, and thus contribute to the sorting of heterogeneous cell types. Cadherin-11 is up-regulated on breast cancer and prostate cancer cells which preferentially metastasize to bone. It facilitates this metastasis via homophilic adhesion to bone marrow stroma and osteoblast-expressed Cadherin-11. Also, Cadherin-11 is considered a viable molecular target for therapeutic intervention in Glioblastoma multiforme.

SDS-PAGE



M: Marker

1: Sample in reducing conditions