Recombinant CDHR5 protein (His tag)

Catalog Number	541292
Synonyms	Mu-protocadherin; Mucin and cadherin-like protein; Mucin-like protocadherin; MLPCDH
Species	Human
Expression System	E. coli
Accession	Q9HBB8
Molecular Weight	Predictes a molecular mass of 48.64 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 49 kDa band.

Product Information

Sequence Region	26-453
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 26-453 aa (Q9HBB8) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human CDHR5 (Cadherin-related family member 5) Fragment (aa 26-453) - A high-purity protein fragment encompassing three functional cadherin domains, designed for studying intermicrovillar adhesion mechanisms and epithelial brush border differentiation. Cadherin-related family member 5 (CDHR5), also known as Mu-protocadherin or Mucin-like protocadherin, is a crucial intermicrovillar adhesion molecule that forms calcium-dependent heterophilic complexes with CDHR2 on adjacent microvilli. This protein controls the precise packing of microvilli at the apical membrane of epithelial cells and interacts with cytoplasmic proteins to form the intermicrovillar adhesion complex (IMAC), playing a central role in microvilli and epithelial brush border differentiation. CDHR5 localizes to the apical cell membrane and microvillus membrane as a single-pass type I membrane protein, making it essential for maintaining epithelial tissue architecture and function.