Recombinant PCDH7 protein (His tag)

Catalog Number	548655
Synonyms	Brain-heart protocadherin; BH-Pcdh
Species	Human
Expression System	E. coli
Accession	O60245
Molecular Weight	Predictes a molecular mass of 18.51 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	33-183
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 33-183 aa (O60245) 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 Protocadherin-7 (PCDH7) Fragment (residues 33-183): A high-quality, soluble protein fragment derived from human Protocadherin-7, optimized for structural and biochemical studies. This 151-amino acid fragment offers enhanced stability and purity, ideal for investigating protein interactions and cellular adhesion mechanisms. Protocadherin-7 (BH-Pcdh) is a single-pass type I membrane protein localized to the cell membrane in humans. As a member of the protocadherin family, it plays critical roles in cell-cell adhesion, signaling, and tissue organization, particularly in neural and cardiovascular systems. The full-length protein's membrane association underscores its importance in maintaining cellular architecture and communication pathways. This recombinant fragment (residues 33-183) was computationally designed to provide a stable, soluble unit for focused research on its structural properties and functional domains.