Recombinant GP180 protein (His tag)

Catalog Number	550429
Synonyms	Intimal thickness-related receptor
Species	Human
Expression System	E. coli
Accession	Q86V85
Molecular Weight	Predictes a molecular mass of 18.50 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band.

Product Information

Sequence Region	23-172
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 23-172 aa (Q86V85) 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 GPR180 (23-172) is a high-quality protein fragment derived from the integral membrane protein GPR180, also known as the Intimal thickness-related receptor. This 150-amino acid fragment has been computationally optimized for stability and solubility, making it an ideal tool for structural studies, biochemical assays, and functional investigations into GPR180's role in vascular biology. GPR180 is a multi-pass membrane protein localized to the cellular membrane in humans. While a detailed functional summary is not provided, its association with intimal thickness suggests potential relevance in vascular and cardiovascular contexts, possibly related to arterial wall remodeling or related physiological processes. The full-length protein's membrane integration indicates it may function in signal transduction or as a receptor, though specific mechanistic roles require further research. This recombinant fragment enables focused study of key regions without the complexities of the full transmembrane structure.