Recombinant PCSK5 protein (His tag)

Catalog Number	545606
Synonyms	Proprotein convertase 5; PC5; Proprotein convertase 6; PC6; hPC6; Subtilisin/kexin-like protease PC5
Species	Human
Expression System	E. coli
Accession	Q92824
Molecular Weight	Predictes a molecular mass of 55.97 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 56 kDa band.

Product Information

Sequence Region	115-603
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 115-603 aa (Q92824) 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 Proprotein Convertase Subtilisin/Kexin Type 5 (PCSK5) Fragment (aa 115-603) is a highly purified protein designed for studying the enzymatic activity and domain-specific functions of this key serine endoprotease. This fragment fully encompasses the Peptidase S8 and P/Homo B domains, making it an ideal tool for investigating proprotein processing and regulatory mechanisms in cellular pathways. Proprotein convertase subtilisin/kexin type 5 (PCSK5) is a serine endoprotease that processes various proproteins by cleaving at paired basic amino acids, recognizing the RXXX[KR]R consensus motif. It functions in both constitutive and regulated secretory pathways and plays an essential role in pregnancy establishment through proteolytic activation of critical factors including BMP2, CALD1, and alpha-integrins. The full-length protein exhibits isoform-specific subcellular localization, with PC6A being secreted through the regulated secretory pathway and PC6B functioning as a type I membrane protein localized to a paranuclear post-Golgi network compartment in communication with early endosomes.