Recombinant PG12B protein (His tag)

Catalog Number	549361
Synonyms	Group XIII secretory phospholipase A2-like protein; GXIII sPLA2-like; sPLA2-GXIIB; GXIIB
Species	Human
Expression System	E. coli
Accession	Q9BX93
Molecular Weight	Predictes a molecular mass of 16.59 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	63-195
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 63-195 aa (Q9BX93) 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 Group XIIB secretory phospholipase A2-like protein (GXIII sPLA2-like, PLA2G12B), fragment 63-195, is a 133-amino acid protein fragment designed for structural and biochemical studies. This fragment was computationally selected for stability and solubility, providing an optimal tool for investigating the properties of this catalytically inactive phospholipase A2-like protein. The full-length Group XIIB secretory phospholipase A2-like protein (sPLA2-GXIIB), encoded by the PLA2G12B gene in Homo sapiens, is a secreted protein whose precise biological function remains unknown. Based on available data, it does not appear to possess catalytic activity, distinguishing it from enzymatically active phospholipase A2 family members. As a secreted protein, it likely functions in extracellular environments, though its specific physiological role and mechanisms require further investigation. This recombinant fragment provides researchers with a valuable reagent for elucidating the structural characteristics and potential non-enzymatic functions of this intriguing phospholipase A2-like protein.