Recombinant ENPP6 protein (His tag)

Catalog Number	547534
Synonyms	GPC-Cpde; Choline-specific glycerophosphodiester phosphodiesterase; Ectonucleotide pyrophosphatase/phosphodiesterase family member 6; E-NPP 6; NPP-6
Species	Human
Expression System	E. coli
Accession	Q6UWR7
Molecular Weight	Predictes a molecular mass of 47.56 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 48 kDa band.

Product Information

Sequence Region	23-419
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 23-419 aa (Q6UWR7) 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 Glycerophosphocholine cholinephosphodiesterase ENPP6 (GPC-Cpde) fragment (residues 23-419) is a high-purity protein designed for structural and biochemical studies. This fragment encompasses a stable, soluble domain of ENPP6, optimized for research on choline metabolism and lysophospholipid hydrolysis. ENPP6 is a choline-specific glycerophosphodiesterase that hydrolyzes glycerophosphocholine (GPC) and lysophosphatidylcholine (LPC), playing a key role in supplying choline to cells. It exhibits a preference for LPC with short-chain or polyunsaturated fatty acids and can also hydrolyze other choline-containing lysophospholipids like sphingosylphosphorylcholine and platelet-activating factor in vitro. The full-length protein is localized to the cell membrane via a GPI-anchor, with a minor fraction potentially present extracellularly, underscoring its importance in membrane-associated metabolic processes.