Recombinant ACP7 protein (His tag)

Catalog Number	550665
Synonyms	Purple acid phosphatase long form
Species	Human
Expression System	E. coli
Accession	Q6ZNF0
Molecular Weight	Predictes a molecular mass of 49.30 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 49 kDa band.

Product Information

Sequence Region	27-438
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 27-438 aa (Q6ZNF0) 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 Acid Phosphatase Type 7 (EC 3.1.3.2) Fragment (27-438) - A high-quality, soluble protein fragment ideal for structural biology and enzymatic studies. This 412-amino acid fragment represents the stable core domain of purple acid phosphatase, carefully selected through computational analysis to ensure optimal expression and functionality for research applications. Acid phosphatase type 7, also known as purple acid phosphatase long form, is a secreted enzyme encoded by the ACP7 gene in humans. As a member of the acid phosphatase family (EC 3.1.3.2), this protein functions in phosphate ester hydrolysis. The subcellular localization data indicates that the native full-length protein is secreted, suggesting potential roles in extracellular phosphate metabolism and signaling pathways. Purple acid phosphatases are characterized by their distinctive purple color in native form due to binuclear metal centers and are known to play important roles in bone metabolism, immune function, and other physiological processes involving phosphate regulation.