Recombinant LHPP protein (His tag)

Catalog Number	548201
Synonyms	hLHPP
Species	Human
Expression System	E. coli
Accession	Q9H008
Molecular Weight	Predictes a molecular mass of 30.82 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 31 kDa band.

Product Information

Sequence Region	1-270
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 1-270 aa (Q9H008) 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 Phospholysine phosphohistidine inorganic pyrophosphate phosphatase (hLHPP) fragment (residues 1-270) is a high-quality protein product designed for structural and biochemical studies. This fragment, derived from the LHPP gene, represents a stable and soluble unit optimized for research applications, enabling detailed investigation of its phosphatase activity and molecular interactions. Phospholysine phosphohistidine inorganic pyrophosphate phosphatase (hLHPP) is a versatile phosphatase that hydrolyzes substrates including imidodiphosphate, 3-phosphohistidine, and 6-phospholysine. It exhibits broad substrate specificity and can also hydrolyze inorganic diphosphate, albeit with lower efficiency. The protein is localized in both the cytoplasm and nucleus, suggesting roles in diverse cellular processes. This recombinant fragment (1-270) was selected to provide a functional and stable representation of the protein, facilitating exploration of its catalytic mechanisms and biological relevance in human systems.