Recombinant PPB1 protein (His tag)

Catalog Number	542023
Synonyms	Alkaline phosphatase Regan isozyme; Placental alkaline phosphatase 1; PLAP-1
Species	Human
Expression System	E. coli
Accession	P05187
Molecular Weight	Predictes a molecular mass of 54.09 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 55 kDa band.

Product Information

Sequence Region	23-503
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 23-503 aa (P05187) 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 placental alkaline phosphatase (ALPP), a key enzyme for hydrolyzing phosphate compounds, is offered as a stable and soluble fragment (residues 23-503) optimized for structural and biochemical studies. Alkaline phosphatase, placental type (EC 3.1.3.1), encoded by the ALPP gene, functions to hydrolyze various phosphate compounds, playing a critical role in phosphate metabolism. It is anchored to the cell membrane via a GPI-link, indicating its localization in membrane-associated processes. This recombinant fragment provides a functional unit ideal for investigating enzymatic activity and molecular interactions without membrane constraints.