Recombinant PPBI protein (His tag)

Catalog Number	544349
Synonyms	IAP; Intestinal alkaline phosphatase
Species	Human
Expression System	E. coli
Accession	P09923
Molecular Weight	Predictes a molecular mass of 54.11 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 54 kDa band.

Product Information

Sequence Region	20-503
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 20-503 aa (P09923) 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	This recombinant protein product features a stable and soluble fragment (residues 20-503) of human Intestinal-type alkaline phosphatase (IAP), an enzyme critical for hydrolyzing phosphate compounds. Ideal for structural and biochemical studies, this fragment is computationally optimized for high performance in research applications. Intestinal-type alkaline phosphatase (IAP), encoded by the ALPI gene in humans, functions as an alkaline phosphatase capable of hydrolyzing various phosphate compounds. It is localized to the cell membrane through a GPI-anchor, playing a key role in phosphate metabolism and cellular processes. This protein is significant for understanding enzymatic regulation and its implications in physiological and pathological contexts.