

PZP Protein, Human, Recombinant (His)

General Information

Synonyms:	Pregnancy zone protein;CPAMD6;C3 and PZP-like alpha-2-macroglobulin domain-containing protein 6;PZP
Protein Construction:	472-821 aa
Species:	Human
Expression Host:	E. coli
Accession:	P20742
Molecular Weight:	42.3 kDa (predicted)
AA Sequence:	MKPEAELSVSSVYNLLTVKDLTNFPDNDVQEEEQGHCPRPFFIHNGAIYVPLSSNEADIYSFLKGMGLKVFT NSKIRKPKSCSVIPSVSAGAVGQGYGAGLGVVERPYVPQLGTYNVIPLNNEQSSGPVETVRSYFPETWIWE LVAVNSSGVAEVGVTVPDTITIEWKAGAFCLSEADAGLISSTASLRAFQPPFFVELTMPYSVIRGEVFTLKATVLNY LPKCIRAEGIEQKTFSSMTCASGANVSEQLSLKLPSNVVKESARASFSVLGDILGSAMQNIQNLLQMPYGGC EQNMVLFAPNIYVLNLYLNETQQLTQEIKAKAVGYLITGYQRQLNYKHQDGSYSTFG

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer

Preparation and Storage

Reconstitution:
Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Is able to inhibit all four classes of proteinases by a unique 'trapping' mechanism. This protein has a peptide

stretch, called the 'bait region' which contains specific cleavage sites for different proteinases. When a proteinase cleaves the bait region, a conformational change is induced in the protein which traps the proteinase. The entrapped enzyme remains active against low molecular weight substrates (activity against high molecular weight substrates is greatly reduced). Following cleavage in the bait region a thioester bond is hydrolyzed and mediates the covalent binding of the protein to the proteinase.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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