

# Recombinant Human Pregnancy zone protein(PZP),partial

Catalog No: #AP70690

Package Size: #AP70690-1 20ug #AP70690-2 100ug #AP70690-3 1mg

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## Description

|                       |                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | Recombinant Human Pregnancy zone protein(PZP),partial                                                                                                                                                                                                                                                                                                                                           |
| Host Species          | E.coli                                                                                                                                                                                                                                                                                                                                                                                          |
| Purification          | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                     |
| Immunogen Description | Expression Region:472-821aaSequence Info:Partial of Isoform 2                                                                                                                                                                                                                                                                                                                                   |
| Other Names           | C3 and PZP-like alpha-2-macroglobulin domain-containing protein 6                                                                                                                                                                                                                                                                                                                               |
| Accession No.         | P20742                                                                                                                                                                                                                                                                                                                                                                                          |
| Calculated MW         | 42.3 kDa                                                                                                                                                                                                                                                                                                                                                                                        |
| Tag Info              | N-terminal 6xHis-tagged                                                                                                                                                                                                                                                                                                                                                                         |
| Target Sequence       | MKPEAELSVSSVYNLLTVKDLTNFPDNVDQEEEEQGHCPRPFFIHNGAIYVPLSSNEADIYSFLKGMGLKVFTN<br>SKIRKPKSCSVIPSVSAGAVGQGYGAGLGVERPYVPQLGTYNVIPLNNEQSSGVPETVRSYFPETWIWEL<br>VAVNSSGVAEVGVTVPDITIEWKAGAFCLSEDAGLGISSTASLRAFQPFVELTMPYSVIRGEVFTLKATVLNY<br>LPKCIRAEGIEQEKTFSMTCASGANVSEQLSLKLPNSVVKESARASFSVLGDILGSAMQNIQNLLQMPYGC<br>EQNMVLFAPNIYVLNLYNETQQLTQEIKAKAVGYLITGYQRQLNYKHQDGSYSTFG                        |
| Formulation           | Tris-based buffer50% glycerol                                                                                                                                                                                                                                                                                                                                                                   |
| Storage               | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br><br>Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |

## 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 rains 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.

## References

Initial characterization of the human central proteome.Burkard T.R., Planyavsky M., Kaupe I., Breitwieser F.P., Buerckstuemmer T., Bennett K.L., Superti-Furga G., Colinge J.BMC Syst. Biol. 5:17-17(2011) Research Topic:Neuroscience

Note: This product is for in vitro research use only and is not intended for use in humans or animals.