

Recombinant Human PZP Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PZP-5745H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PZP MS Standard C13 and N15-labeled recombinant protein (NP_002855) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is highly expressed in late-pregnancy serum and is similar in structure to alpha-2-macroglobulin. The encoded protein, which acts as a homotetramer, inhibits the activity of all four classes of proteinases. This protein contains cleavage sites for several proteinases. Upon binding of a proteinase, the conformation of this protein changes to trap the proteinase, limiting its activity. This protein appears to be elevated in the sera of presymptomatic Alzheimer's disease patients.
Molecular Mass	163.7 kDa
AA Sequence	MRKDRLLHLCLVLLILLISASDSNSTEPQYMLVPSLLHTEAPKKGCVLLSHLNETVT VSASLESGRENRSFLFDLVAEKDLFHCVSFTLPRISASSEVAFLSIQIKGPTQDFRKR NTVLVLNTQSLVFVQTDKPMYKPGQTVRFRVSVSDENFRPRNELIPLIYLENPRNRRI AQWQSLKLEAGINQLSFPLSSEPIQGSYRVVQTESGGRIQHPFTVEEFVLPKFEVK VQVPKIISIMDEKVNITVCGEYTYGKPVPLATVSLCRKLSRVLNCDKQEVCEEFSQQ LNSNGCITQQVHTKMLQITNTGFEMKLRVEARIREEGTDLEVTANRISEITNIVSKLKF

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VKVDSHFRQGIPFFAQVLLVDGKGVPIPNKLFFISVNDANYYSNATTNEQGLAQFSIN
TTSISVNKLFVRVFTVHPNLCFHYSWVAEDHQGAQHTANRVFSLSGSYIHLEPVAGT
LPCGHTETITAHYTLNRQAMGELSELSFHYLIMAKGVIVRSGTHTLPVESGDMKGSF
ALSFPVESDVAPIARMFIFAILPDGEVVGDESEKFEIENCLANKVDLSFSPAQSPASH
AHLQVAAAPQSLCALRAVDQSVLLMKPEAELSVSSVYNLLTVKDLTNFPDNVDQQE
EEQGHCPRPFFIHNGAIYVPLSSNEADIYSFLKGMGLKVFTNSKIRKPKSCSVIPSVS
AGAVGQGYGAGLGVVERPYVPQLGTYNVIPLNNEQSSGPVPETVRSYFPETWIW
ELVAVNSSGVAEVGVTVPDTITEWKAGAFCLSEDAGLGISSTASLRAFQPPFFVELTM
PYSVIRGEVFTLKATVLNLYPKCIRVSVQLKASPAFLASQNTKGEESYCICGNERQTL
SWTVTPKTLGNVNFVSVAEAMQSLELCGNEVVEVPEIKRKDTVIKTLLVEAEGIEQEK
TFSSMTCASGANVSEQLSLKLPSNVVKESARASFVGLDILGSAMQNIQNLLQMPYG
CGEQNMVLFAPNIYVLNLYNETQQLTQEIKAKAVGYLITGYQRQLNYKHQDGSYSTF
GERYGRNQGNTWLTAFVLKTFQAQARSYIFIDEAHITQSLTWLSQMOKDNGCFRSSG
SLLNNAIKGGVEDEATLSAYVTIALLEIPLPVTNPVIRNALFCLESANVNAKEGTHGSH
VYTKALLAYAFSLLGKQNQNREILNSLDKEAVKEDNLVHWERPQRPKAPVGHLYQT
QAPSAEVEMTSYVLLAYLTAQPAPTSGDLTSATNIVKWIMKQQNAQGGFSSTQDTV
VALHALSRYGAATFTRTEKTAQVTVQDSQTFSTNFQVDNNNLLLQQLPELPGEY
VITVTGERCVYLQTSMKYNILPEKEDSPFALKVQVTPQTCDGHKAHTSFQISLTISYT
GNRPASNMVIVDVKMVSGFIPLKPTVKMLERSSSVSRTEVSNNHVLIIYVEQVTNQTL
SFSFMVLQDIPVGLKPAIVKVYDYETDESVAEYIAPCSTDTEHGNVTRTRPLEQK
LISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

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Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PZP PZP alpha-2-macroglobulin like [Homo sapiens (human)]

Official Symbol PZP

Synonyms PZP; PZP alpha-2-macroglobulin like; CPAMD6; pregnancy zone protein; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 6; Pregnancy zone protein; pregnancy-zone protein

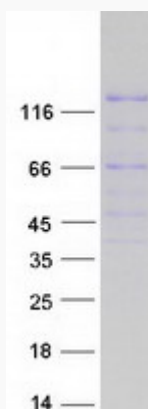
Gene ID 5858

mRNA Refseq NM_002864

Protein Refseq NP_002855

MIM 176420

SDS-PAGE



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