

PTEN recombinant protein

PTEN, 1-403aa, Human, His tag, E Coli

CATALOG # AAA48549	HOST E Coli	APPLICATIONS SDS-Page
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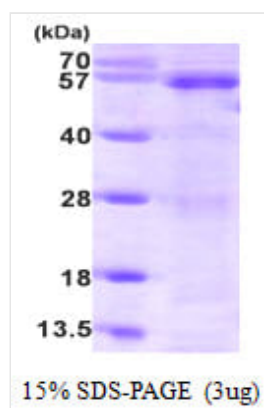
PRODUCT SYNONYMS

PTEN; 1-403aa; Human; His tag; E Coli; Phosphatase and tensin homolog; BZS; MHAM; MMAC1; PTEN1; TEP1; mutated in multiple advanced cancers 1; ; PTEN recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 85% by SDS-PAGE
Form/Format	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 1mM EDTA, 2mM DTT, 100mM NaCl, and 20% glycerol
Concentration	0.5 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MTAIKEIVS RNKRRYQEDG FDLDTYIYP NIIAMGFPAE RLEGVYRNNI DDVVRFLDSK HKNHYKIYNL CAERHYDTAK FNCRVAQYPF EDHNPPQLEL IKPFCEDLDQ WLSEDDNHVA AIHCKAGKGR TGVMICAYLL HRGKFLKAQE ALDFYGEVRT RDKKGV TIPS QRRYVYYYSY LLKNHLDYRP VALLFHKMMF ETIPMFSGGT CNPQFVVCQL KVKIYSSNSG PTRREDKFMV FEFQPLPVC GDIKVEFFHK QNKMLKKDKM FHFVWNTFFI PGPEETSEKV ENGLCDQEI DSICSIERAD NDKEYLVLT TLTKNDLDKANK DKANRYFSPN FKVKLYFTKT VEEPSNPEAS SSTSVTPDVS DNEPDHYRYS DTTDSDPENE PFDEDQHTQI TKV
Sequence Length	403
Applicable Applications for PTEN recombinant protein	SDS-PAGE
Tag Information	His-tag
Domain	1-403aa
Preparation and Storage	Can be stored at 2°C to 8°C for one week. For long term storage, aliquot and store at -20°C or -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

Related Product Information for PTEN recombinant protein	PTEN, also known as phosphatase and tensin homolog, is a tumor suppressor that is mutated in a large number of cancers at high frequency. This protein acts as both a dual-specificity protein phosphatase and a lipid phosphatase, removing the phosphate in the D3 position of the inositol ring from phosphatidylinositol 3,4,5-trisphosphate. PTEN negatively regulates intracellular levels of phosphatidylinositol-3,4,5-trisphosphate in cells and functions as a tumor suppressor by negatively regulating AKT/PKB signaling pathway. Recombinant PTEN protein was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for PTEN recombinant protein	Cancer
References	Li DM., et al. (1997) Cancer Res. 57 (11):2124-9. ; Maehama T., et al. (1998) J Biol Chem. 273 (22):13375-8. ;

NCBI AND UNIPROT INFORMATION

NCBI GI #	73765544
NCBI GeneID	5728
NCBI Accession #	NP_000305
NCBI GenBank Nucleotide #	NM_000314.6
UniProt Accession #	P60484; O00633; O02679; Q6ICT7; B2R904; F2YHV0
Molecular Weight	49.3 kDa (423aa)
NCBI Official Full Name	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN isoform PTEN
NCBI Official Synonym Full Names	phosphatase and tensin homolog
NCBI Official Symbol	PTEN
NCBI Official Synonym Symbols	BZS; DEC; CWS1; GLM2; MHAM; TEP1; MMAC1; PTEN1; 10q23del; PTENbeta
NCBI Protein Information	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN
UniProt Protein Name	Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN
UniProt Gene Name	PTEN
UniProt Synonym Gene Names	MMAC1; TEP1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.