

**PTEN, human recombinant protein**  
**Phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN**  
**Catalog # PBV10430r**

## Specification

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### PTEN, human recombinant protein - Product info

Primary Accession	<a href="#">P60484</a>
Concentration	0.1
Calculated MW	80.0 kDa (GST tagged) KDa

### PTEN, human recombinant protein - Additional Info

Gene ID	5728
Gene Symbol	PTEN
<b>Other Names</b>	
Phosphatidylinositol-3, 4, 5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN, Phosphatase and tensin homolog, PTEN, MMAC1, TEP1, BZS, MHAM, PTEN1, 10q23del,	
Gene Source	Human
Source	E. coli
Assay&Purity	SDS-PAGE; ≥90%
Assay2&Purity2	HPLC;
Recombinant	Yes
<b>Format</b>	
Liquid	

### Storage

-80°C; 100 µg/ml in 50 mM Tris-Acetate, pH 7.5, 150 mM NaCl, 0.1 mM EDTA, 10 mM glutathione, 25 mM DTT, 0.1 mM PMSF and 25% Glycerol.

### PTEN, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### PTEN, human recombinant protein - Images

### PTEN, human recombinant protein - Background

PTEN, a tumor suppressor, has been implicated in a large number of human tumors and is

conserved from humans to worms. Characterization of PTEN protein showed that it is a phosphatase that acts on proteins and on 3-phosphorylated phosphoinositides, and can therefore modulate signal-transduction pathways that involve lipid second messengers. Recent results indicate that at least part of its role is to regulate the activity of the serine/threonine kinase AKT/PKB, and thus influence cell survival signaling. Recombinant PTEN is purified by proprietary chromatographic techniques.