# **Recombinant Human PTEN Protein (His Tag)**

Catalog Number:PDEH100023



Note: Centrifuge before opening to ensure complete recovery of vial contents.

## **Description**

Synonyms 10q23del;BZS;DEC;GLM2;MGC11227;MHAM;MMAC1;MMAC1 phosphatase

and tensin homolog deleted on chromosome 10;Mutated in multiple advanced cancers 1;Phosphatase and tensin homolog;Phosphatase and tensin like

protein; Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity

protein phosphatase PTEN;Pten;PTEN;PTEN1;TEP1

Species Human
Expression Host E.coli

SequenceThr2-Val403AccessionP60484-1Calculated Molecular Weight46.8 kDaObserved molecular weight49.1 kDaTagN-His

### **Properties**

**Purity** > 85 % as determined by reducing SDS-PAGE.

**Endotoxin** Please contact us for more information.

**Storage** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** Lyophilized from sterile PBS, pH 7.4.

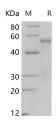
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

#### Data



> 85 % as determined by reducing SDS-PAGE.

## **Background**

PTEN (also designated MMAC1), products of tumor suppressor genes, are found deleted in most human gliomas. The PTEN genes are also mutated in many other tumors, such as brain, breast, kidney and prostate cancers. PTEN is a protein tyrosine phosphatase that may terminate the signaling transduction pathways mediated by PI 3-kinase/Akt. PTEN has an apparent molecular weight of 55 kDa and it is located in the cytosol.

#### For Research Use Only

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