

# Recombinant human PEA-15 protein

Catalog Number: ATGP0399

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-130aa

**UniProt No.**

Q15121

**NCBI Accession No.**

NP\_003759

**Alternative Names**

Phosphoprotein enriched in astrocytes 15kD, Astrocytic phosphoprotein PEA-15, PEA15, PED, Phosphoprotein enriched in astrocytes, 15kD Astrocytic phosphoprotein PEA 15, Astrocytic phosphoprotein PEA15, HMAT 1, HMAT1, Homolog of mouse MAT 1 oncogene, Homolog of mouse MAT1 oncogene, HuMMAT 1H, HuMMAT1H, MAT 1, MAT 1H, MAT1, MAT1H, PEA 15, PEA15 protein, Phosphoprotein enriched in astrocytes 15, Phosphoprotein enriched in astrocytes 15kD, Phosphoprotein enriched in diabetes.

## PRODUCT SPECIFICATION

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**Molecular Weight**

15 kDa (130aa) confirmed by MALDI-TOF

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 1mM DTT, 10% glycerol

**Purity**

&gt; 90% by SDS-PAGE

**Tag**

Non-Tagged

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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**Description**

Phospho-enriched protein in astrocytes 15 kDa (PEA-15) is a death effector domain (DED) -containing protein predominantly expressed in the central nervous system, particularly in astrocytes. This protein has been

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implicated in the regulation of multiple cellular processes including apoptosis, proliferation, glucose transport, adhesion and migration. Increased PEA-15 levels may affect tumorigenesis and cancer progression, thus it is overexpressed in breast cancers and gliomas as well as in type 2 diabetes. Recombinant human PEA-15 was expressed in *E. coli* and purified by using conventional chromatography.

### Amino acid Sequence

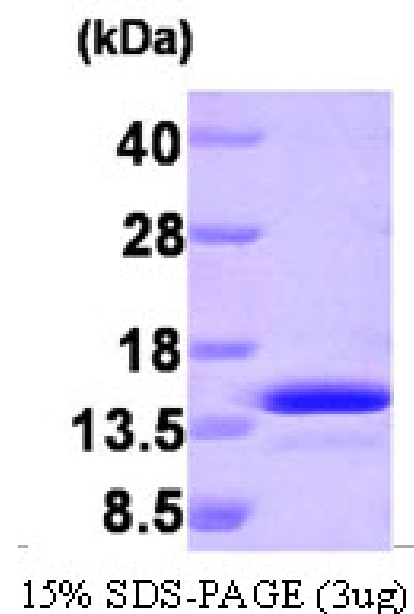
MAEYGTLLQD LTNNITLEDL EQLKSACKED IPSEKSEEIT TGSAWFSFLE SHNKLDKDNL SYIEHIFEIS RRPDLLTMVV  
DYRTRVLKIS EEDELDTKLT RIPSARKKYKD IIRQPSEEEI IKLAPPPKKA

### General References

Beguino F., et al. (2009) *Am J Physiol Endocrinol Metab.* 297(3):E592-601.  
ueno NT., et al. (2008) *Cancer Res.* 68(22):9302-10.

## DATA

### SDS-PAGE



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