

PEA15 Protein, Human

Cat. No.:	HY-P71195
Synonyms:	Astrocytic Phosphoprotein PEA-15; 15 kDa Phosphoprotein Enriched in Astrocytes; Phosphoprotein Enriched in Diabetes; PED; PEA15
Species:	Human
Source:	E. coli
Accession:	Q15121 (M1-A130)
Gene ID:	8682
Molecular Weight:	12-16 kDa

PROPERTIES

AA Sequence	<p> M A E Y G T L L Q D L T N N I T L E D L E Q L K S A C K E D I P S E K S E E I T T G S A W F S F L E S H N K L D K D N L S Y I E H I F E I S R R P D L L T M V V D Y R T R V L K I S E E D E L D T K L T R I P S A K K Y K D I I R Q P S E E E I I K L A P P P K K A </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The PEA15 protein exerts diverse regulatory functions in cellular processes, including blocking Ras-mediated inhibition of integrin activation and modulating the ERK MAP kinase cascade. PEA15 plays a pivotal role in inhibiting the activities of RPS6KA3 by sequestering it in the cytoplasm, thereby regulating key cellular pathways. Additionally, PEA15 serves as a potent inhibitor of both TNFRSF6- and TNFRSF1A-mediated CASP8 activity and apoptosis. Its involvement extends to the regulation of glucose transport, wherein PEA15 controls the content of SLC2A1 glucose transporters on the plasma membrane and modulates the insulin-dependent trafficking of SLC2A4 from the cell interior to the surface. Functionally, PEA15 forms transient interactions with PLD1 and PLD2, further contributing to its intricate regulatory network. Notably, PEA15 engages in direct interactions with key cellular players such as RPS6KA3, MAPK3, MAPK1, CASP8, and FADD,</p>
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underscoring its multifaceted role in cellular signaling and homeostasis.

Caution: Product has not been fully validated for medical applications. For research use only.

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