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PEA15 Human

Catalog #:PRPS-736

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Description:PEA15 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 130 amino acids (1-130 a.a.) and having a molecular mass of 15kDa.The PEA15 is purified by proprietary chromatographic techniques.

Synonyms: Astrocytic phosphoprotein PEA-15, 15 kDa phosphoprotein enriched in astrocytes, Phosphoprotein enriched in diabetes, PED, PEA15, MAT1, HMAT1, MAT1H, PEA-15, HUMMAT1H.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MAEYGTLLQD LTNNITLEDL LKSACKED IPSEKSEEIT TGSAWFSFLE HNKLDKDNL SYIEHIFEIS RRPDLLTMVV DYRTRVLKIS EDELDTKLT RIPSAKKYKD IIRQPSEEEI IKLAPPPKKA.

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:
The PEA15 protein solution contains 20mM Tris-HCl buffer (pH 7.5), 1mM DTT and 10% Glycerol.

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks.Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
PEA15 (Phospho-enriched protein in astrocytes 15kDa) is a death effector domain (DED)-containing protein mainly expressed in the central nervous system, principally in astrocytes. PEA15 is implicated in the regulation of various cellular processes including apoptosis, proliferation, glucose transport, adhesion and migration. PEA15 regulates glucose transport by controlling both the content of SLC2A1 glucose transporters on the plasma membrane and the insulin-dependent trafficking of SLC2A4 from the cell interior to the surface. Increased PEA15 levels have an affect tumorigenesis and cancer progression, therefore it is overexpressed in breast cancers and gliomas as well as in type 2 diabetes. PEA15 blocks Ras-mediated inhibition of integrin activation and modulates the ERK MAP kinase cascade. PEA15 also inhibits RPS6KA3 activities by holding it in the cytoplasm. In addition, PEA15 inhibits both TNFRSF6 and TNFRSF1A mediated CASP8 activity and apoptosis. PEA15 is ubiquitously expressed. PEA15 is most abundant in tissues such as the heart, brain, muscle and adipose tissue which use glucose as an energy source. Lower PEA15 expression is in glucose-producing tissues. Higher levels of PEA15 expression are found in tissues from individuals with type 2 diabetes than in controls.PEA15 expression is a significant prognostic marker in ovarian cancer.

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