
Product Data Sheet

Product Name: PEA15 Human
 Cat. No.: GP24158
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Astrocytic phosphoprotein PEA-15; 15 kDa phosphoprotein enriched in astrocytes; Phosphoprotein enriched in diabetes; PED; PEA15; MAT1; HMAT1; MAT1H; PEA-15; HUMMAT1H.		
Amino Acid Sequence	MAEYGTLQD LTNNITLEDL LKSACKED IPSEKSEEIT TGSAWFSFLE HNKLDKDNL SYIEHIFEIS RRPDLLTMVV DYRTRVLKIS EDELDTKLT RIPSAKKYKD IIRQPSEEEI IKLAPPPKKA.		
Formulation	The PEA15 protein solution contains 20mM Tris-HCl buffer (pH 7.5), 1mM DTT and 10% Glycerol.		

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. 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.

Stability

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

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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.

Background

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.

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