Recombinant Human Astrocytic Phosphoprotein PEA-15/PEA15 Protein

Catalog No. PKSH032094

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

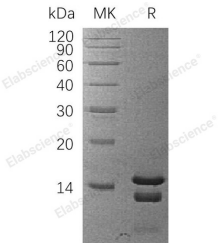
Description

Synonyms	Astrocytic Phosphoprotein PEA-15;15 kDa Phosphoprotein Enriched in Astrocytes;Phosphoprotein Enriched in Diabetes;PED;PEA15
Species	Human
Expression Host	E.coli
Sequence	Met 1-Ala130
Accession	Q15121
Calculated Molecular Weight	15.3 kDa
Observed molecular weight	12-16 kDa
Tag	None
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB,150mM NaCl,pH7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 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



> 95 % as determined by reducing SDS-PAGE.

Background

Astrocyticphosphoprotein PEA-15 (PEA15) is a death effector domain (DED)-containing protein. PEA15 is mainly

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expressed in the central nervous system, principally in astrocytes. Increased PEA15 levels affect tumorigenesis and cancer progression. PEA15 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. At present, PEA15 expression is also a significant prognostic marker in ovarian cancer.

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