Recombinant Human SPEG/APEG-1 Protein (His Tag)

Catalog Number: PKSH030334

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

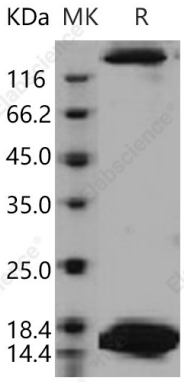
Description

Species	Human
Source	E.coli-derived Human SPEG/APEG-1 protein Met 1-Glu 113, with an C-terminal His
Calculated MW	354 kDa
Observed MW	19 kDa
Accession	Q15772-4
Bio-activity	Not validated for activity

Properties

Purity	> 85% as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
Endotoxin	Please contact us for more information.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/ gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as sterile solution of PBS, pH 7.4

Data



> 85 % as determined by reducing SDS-PAGE.

Background

Striated muscle preferentially expressed protein kinase, also known as aortic preferentially expressed protein 1, APEG-1, SPEG and KIAA1297, is a protein which belongs to theprotein kinase superfamily and CAMK Ser/Thr protein kinase family. SPEG/APEG-1 contains twofibronectin type-III domains, nine Ig-like (immunoglobulin-like) domains, two protein kinase domains. Isoform1of SPEG is preferentially expressed in striated muscle. Non-kinase form such as isoform3of SPEG is predominantly expressed in the aorta. Isoform3of SPEG appears to be expressed only in highly differentiated ASMC in normal vessel walls and down-regulated in dedifferentiated ASMC. Isoform3of SPEG may have a role in regulating the growth and differentiation of arterial smooth muscle cells. Isoform3of SPEG is quickly down-regulated in response to vascular injury, when ASMC cells change from a quiescent to a proliferative phenotype.

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