

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

Catalog Number:PKSH030334

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

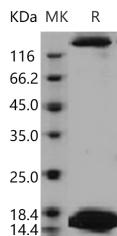
Description

Synonyms	APEG-1;APEG1;BPEG;CNM5;SPEGalpha;SPEGbeta
Species	Human
Expression Host	E.coli
Sequence	Met 1-Glu 113
Accession	Q15772-4
Calculated Molecular Weight	14 kDa
Observed molecular weight	19 kDa
Tag	C-His

Properties

Purity	> 85 % as determined by reducing SDS-PAGE.
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
Reconstitution	Not Applicable

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 the protein kinase superfamily and CAMK Ser/Thr protein kinase family. SPEG / APEG-1 contains two fibronectin type-III domains, nine Ig-like (immunoglobulin-like) domains, two protein kinase domains. Isoform1 of SPEG is preferentially expressed in striated muscle. Non-kinase form such as isoform3 of SPEG is predominantly expressed in the aorta. Isoform3 of SPEG appears to be expressed only in highly differentiated ASMC in normal vessel walls and down-regulated in dedifferentiated ASMC. Isoform3 of SPEG may have a role in regulating the growth and differentiation of arterial smooth muscle cells. Isoform3 of 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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