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

Catalog No. PKSH030334

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

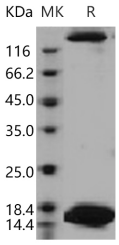
Description

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
Bioactivity	Not validated for activity

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 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

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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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