



Recombinant Protein Technical Manual
Recombinant Human SPEG/APEG Protein (His Tag)
RPES0870

Product Data:

Product SKU: RPES0870

Size: 50µg

Species: Human

Expression host: E. coli

Uniprot: Q15772-4

Protein Information:

Molecular Mass: 14 kDa

AP Molecular Mass: 19 kDa

Tag: C-His

Bio-activity:

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 PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: APEG;APEG1;BPEG;CNM5;SPEGalpha;SPEGbeta

Immunogen Information:

Sequence: Met 1-Glu 113

Background:

Striated muscle preferentially expressed protein kinase, also known as aortic preferentially expressed protein 1, APEG, SPEG and KIAA1297, is a protein which belongs to the protein kinase superfamily and CAMK Ser/Thr protein kinase family. SPEG / APEG contains two fibronectin type-III domains, nine Ig-like (immunoglobulin-like) domains, two protein kinase domains. Isoform 1 of SPEG is preferentially expressed in striated muscle. Non-kinase form such as isoform 3 of SPEG is predominantly expressed in the aorta. Isoform 3 of SPEG appears to be expressed only in highly differentiated ASMC in normal vessel walls and down-regulated in dedifferentiated ASMC. Isoform 3 of SPEG may have a role in regulating the growth and differentiation of arterial smooth muscle cells. Isoform 3 of SPEG is quickly down-regulated in response to vascular injury, when ASMC cells change from a quiescent to a proliferative phenotype.