

**Recombinant Human SPEG / APEG-1 Protein (His tag)**

**Cat.NO.: TP08352**

3th Edition

**Synonyms:**APEG-1;APEG1;BPEG;CNM5;SPEGalpha;SPEGbeta

**Description:**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. 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.

**Form:**PBS

**Molecular Weight:**14 kDa

**Sequences:**Met 1-Glu 113

**Purity:**> 95% by HPLC

**Concentration:**

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.