**SEPW1, 1-87aa, Human, His tag, E.coli**

**Cat.NO.: TP03892**

3th Edition

**Synonyms:**Selenoprotein W, selW

**Description:**SEPW1 is a selenoprotein, which contains a selenocysteine (Sec) residue at its active site. The selenocysteine is encoded by the UGA codon that normally signals translation termination. The 3' UTR of selenoprotein genes have a common stem-loop structure, the sec insertion sequence (SECIS), that is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. This protein shows highest expression in skeletal muscle and heart, and may be involved in oxidation-reduction reactions. A retroprocessed pseudogene, SEPW1P, has been identified and mapped to chromosome 1p35-34. Recombinant human SEPW1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

**Molecular Weight:**11.8kDa(110aa) confirmed by MALDI-TOF

**Sequences:**
MGSSHHHHHHSSGLVPRGSHMGSMALAVRVVYCGACGYKSKYLQLKKKLEDEFPGRLDICGEGTPQATGFFEVM
VAGKLIHSKKKGDGYVDTESKFLKLVAAIKAALAQG

**Purity:**> 95% by HPLC

**Concentration:**0.25 mg/ml (determined by BRADFORD assay)

**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.