Recombinant Human SEPW1 protein, His-tagged

Cat. No. SELENOW-03H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SEPW1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-87
Description	This gene encodes a selenoprotein containing a selenocysteine (Sec) residue, which is encoded by the UGA codon that normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, the Sec insertion sequence (SECIS) element that is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. This protein is highly expressed in skeletal muscle, heart and brain. It belongs to the SelWTH family, which possesses a thioredoxin-like fold and a conserved CxxU (C is cysteine, U is Sec) motif, suggesting a redox function for this gene. Studies in mouse show that this selenoprotein is involved in muscle growth and differentiation, and in the protection of neurons from oxidative stress during neuronal development. A retroprocessed pseudogene of this locus has been identified on chromosome 1.
Form	Liquid
Molecular Mass	11.8 kDa (110aa)

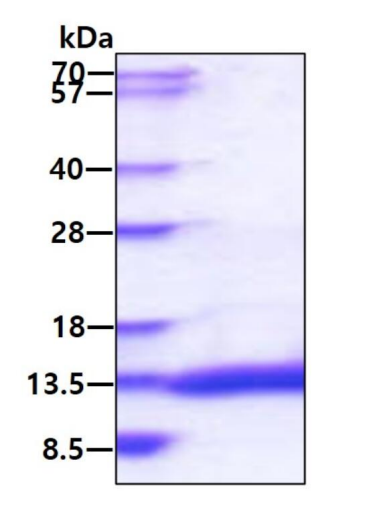
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AA Sequence	MALAVRVVYCGACGYKSKYLQLKKKLEDEFPGRLDICGEGTPQATGFFEVMVAGKLI HSKKKGDGYVDTESKFLKLVAAIKAALAQG
Purity	> 95 % by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/mL
Storage Buffer	20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

GENE INFORMATION

Gene Name	SELENOW selenoprotein W [Homo sapiens (human)]
Official Symbol	SELENOW
Synonyms	SELENOW; selenoprotein W; selW; SEPW1; selenoprotein W; selenoprotein W, 1
Gene ID	6415
mRNA Refseq	NM_003009
Protein Refseq	NP_003000
MIM	603235
UniProt ID	P63302

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SDS-PAGE	 3 μg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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