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## Product Data Sheet

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Product Name: SEPW1 Human  
 Cat. No.: GP24526  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Selenoprotein W; 1; SelW; Selenoprotein W.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMALAVRV VYCGACGYKS KYLQLKKKLE DEFPGRLDIC GEGTPQATGFFEVMVAGKLI HSKKKGDGYV DTESKFLKLV AAIKAALAQG.		
Formulation	SEPW1 protein solution (0.25mg/ml) containing 20mMTris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.		

### Introduction

Selenoprotein W 1, also known as SEPW1 is a selenoprotein, which has a selenocysteine (Sec) residue at its active site. The selenocysteine is encoded through the UGA codon which normally signals translation termination. The 3'UTR of selenoprotein genes share a common stem-loop structure, the sec insertion sequence (SECIS), which is essential for the recognition of UGA as a Sec codon instead of as a stop signal. SEPW1 shows highest expression in skeletal muscle and heart, and also involved in oxidation-reduction reactions.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

SEPW1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 110 amino acids (1-87 a.a) and having a molecular mass of 11.8kDa. SEPW1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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