Recombinant Human SELENOW protein, His-tagged

Cat. No. SELENOW-1293H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SELENOW aa. (Met1~Gly86 (Accession # P63302) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Gly86
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 11.0kDa.

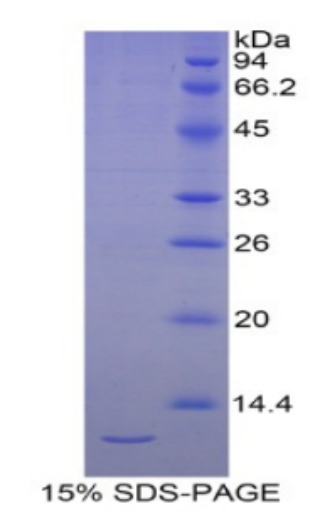
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Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 9.1.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	SELENOW selenoprotein W [Homo sapiens (human)]
Official Symbol	SELENOW
Synonyms	SELENOW; selenoprotein W; selW; SEPW1; selenoprotein W, 1
Gene ID	6415

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mRNA Refseq	NM_003009.3
Protein Refseq	NP_003000.1
UniProt ID	P63302
SDS-PAGE	

15% SDS-PAGE

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