Recombinant Human SELENOW Protein (Met1-Gly86), His tagged

Cat. No. SELENOW-5470H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SELENOW (Met1-Gly86) fused with His tag was expressed in E. coli.
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	Lyophilized powder/frozen liquid
Molecular Mass	11.19 kDa

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 90 % as determined by SDS-PAGE
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

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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