

Recombinant Human SELENOP Protein (Leu60-Lys274), N-His tagged

Cat. No. SELENOP-5469H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SELENOP (Leu60-Lys274) fused with the N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Leu60-Lys274
Description	This gene encodes a selenoprotein that is predominantly expressed in the liver and secreted into the plasma. This selenoprotein is unique in that it contains multiple selenocysteine (Sec) residues per polypeptide (10 in human), and accounts for most of the selenium in plasma. It has been implicated as an extracellular antioxidant, and in the transport of selenium to extra-hepatic tissues via apolipoprotein E receptor-2 (apoER2). Mice lacking this gene exhibit neurological dysfunction, suggesting its importance in normal brain function. Sec is encoded by the UGA codon, which normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, designated the Sec insertion sequence (SECIS) element, that is necessary for the recognition of UGA as a Sec codon, rather than as a stop signal. The mRNA for this selenoprotein contains two SECIS elements. The use of alternative polyadenylation sites, one located in between the two SECIS elements, results in two populations of mRNAs containing either both (predominant) or just the upstream SECIS element (PMID:27881738). Alternatively spliced transcript

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variants have also been found for this gene.

Form	Lyophilized powder/frozen liquid
Molecular Mass	26.95 kDa
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	0.01M PBS, pH 7.4, 0.02 % NLS
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	SELENOP selenoprotein P [Homo sapiens (human)]
Official Symbol	SELENOP
Synonyms	SELENOP; selenoprotein P; SeP; SELP; SEPP; SEPP1;
Gene ID	6414
mRNA Refseq	NM_005410

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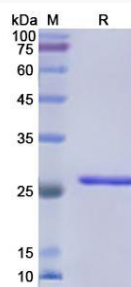
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Protein Refseq NP_005401

MIM 601484

UniProt ID P49908

SDS-PAGE



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