# Selenocysteine-Specific Elongation Factor (EEFSEC) Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Selenocysteine-specific elongation factor (EEFSEC), Recombinant Protein |
| **Full Product Name** | Recombinant Human Selenocysteine-specific elongation factor (EEFSEC) |
| **Product Gene Name** | EEFSEC recombinant protein |
| **Sequence** | MAGRRVNVNV GVLGHIDSGK TALARALSTT ASTAAFDKQP QSRERGITLD LGFSCFSVPL PARLRSSLPE FQAAPEAEPE PGEPLLQVTL VDCPGHASLI RTIIGGAQII DLMMLVIDVT KGMQTQSAEC LVIGQIACQK LVVVLNKIDL LPEGKRQAAI DKMTKKMQKT LENTKFRGAP IIPVAAKPGG PEAPETEAPQ GIPELIELLT SQISIPTRDP SGPFLMSVDH CFSIKGQGTV MTGTILSGSI SLGDSVEIPA LKVVKKVKSM QMFHMPITSA MQGDRLGICV TQFDPKLLER GLVCAPESLH TVHAALISVE KIPYFRGPLQ TKAKFHITVG HETVMGRLMF FSPAPDNFDQ EPILDSFNFS QEYLFQEQYL SKDLTPAVTD NDEADKKAGQ ATEGHCPRQQ WALVEFEKPV TCPRLCLVIG SRLDADIHTN TCRLAFHGIL LHGLEDRNYA DSFLPRLKVY KLKHKHGLVE RAMDDYSVIG RSLFKKETNI QLFVGLKVHL STGELGIIDS AFGQSGKFKI HIPGGLSPES KKILTPALKK RARAGRGEAT RQEESAERSE PSQHVVLSLT FKRYVFDTHK RMVQSP |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 62,579 Da |
| **Sequence Positions** | 1-596, Full length protein |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **OMIM** | 607695 |
| **3D Structure** | ModBase 3D Structure for P57772 |
| **Species** | Human |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for EEFSEC recombinant protein** | MBS964228 is a recombinant protein targeting EEFSEC. Also known as Recombinant Human Selenocysteine-specific elongation factor (EEFSEC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of EEFSEC recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EEFSEC. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 54607086 |
| **NCBI GeneID** | 60678 |

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| **NCBI Accession #** | NP_068756.2 |
| **UniProt Primary Accession #** | P57772 |
| **UniProt Secondary Accession #** | Q96HZ6 |
| **UniProt Related Accession #** | P57772 |
| **GenBank Nucleotide #** | NM_021937.4 |
| **NCBI Official Full Name** | selenocysteine-specific elongation factor |
| **NCBI Official Synonym Full Names** | eukaryotic elongation factor, selenocysteine-tRNA specific |
| **NCBI Official Symbol** | EEFSEC |
| **NCBI Official Synonym Symbols** | SELB; EFSEC |
| **UniProt Protein Name** | Selenocysteine-specific elongation factor |
| **UniProt Synonym Protein Names** | Elongation factor sec; Eukaryotic elongation factor, selenocysteine-tRNA-specific |
| **Protein Family** | Selenocysteine-specific elongation factor |
| **UniProt Gene Name** | EEFSEC |
| **UniProt Synonym Gene Names** | SELB |
| **NCBI Protein Information** | selenocysteine-specific elongation factor |
| **UniProt Comments for EEFSEC** | Translation factor necessary for the incorporation of selenocysteine into proteins. It probably replaces EF-Tu for the insertion of selenocysteine directed by the UGA codon. SelB binds GTP and GDP. |
| **Research Articles on EEFSEC** | **1.** EEFSEC, which encodes selenocysteine-tRNA specific eukaryotic elongation factor, participates in the incorporation of selenocysteine into selenoproteins. Selenoproteins serve critical cellular homeostatic functions in maintaining redox status and antioxidant defenses, as well as modulating inflammatory responses. These physiologic functions have been linked to the parturition process and preterm birth. |
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