EEFSEC siRNA – Selenocysteine-Specific Elongation Factor (Human)

PRODUCT OVERVIEW

Product Name	EEFSEC, siRNA
Full Product Name	EEFSEC siRNA (Human)
Product Gene Name	EEFSEC sirna
Product Synonym Names	SELB; Selenocysteine-specific elongation factor; Elongation factor sec; Eukaryotic elongation factor. selenocysteine-tRNA-specific
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	EEFSEC siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	62,579 Da
OMIM	607695
3D Structure	ModBase 3D Structure for P57772
Negative Control	siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection.
Quality Control	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.
Directions for Use	We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well).
Components	We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of human EEFSEC gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo.
Applications Tested/Suitable for EEFSEC sirna	RNA Interference (RNAi)
Related Product Information for EEFSEC sirna	MBS8236603 is an siRNA targeting EEFSEC. Also known as EEFSEC siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit EEFSEC expression using RNA interference
Other Notes	Small volumes of EEFSEC sirna 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.

NCBI GI #	54607086
NCBI GeneID	60678
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
UniProt Entry Name	SELB_HUMAN
NCBI Protein Information	selenocysteine-specific elongation factor
UniProt Comments for EEFSEC	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. Belongs to the GTP-binding elongation factor family. SelB subfamily. Protein type: Translation Chromosomal Location of Human Ortholog: 3q21.3 Cellular Component: mitochondrion; nucleus; ribonucleoprotein complex Molecular Function: GTPase activity; ribonucleoprotein binding; GTP binding; translation elongation factor activity; tRNA binding Biological Process: selenocysteine incorporation
Research Articles on EEFSEC	**1.** Observational study of gene-disease association and gene-environment interaction. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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