ECEL1 siRNA – Endothelin-Converting Enzyme-Like 1 Isoform 2 (Human)

PRODUCT OVERVIEW

Product Name	ECEL1, siRNA
Full Product Name	ECEL1 siRNA (Human)
Product Gene Name	ECEL1 sirna
Product Synonym Names	XCE; Endothelin-converting enzyme-like 1; Xce protein
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	ECEL1 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	87,603 Da
OMIM	605896
3D Structure	ModBase 3D Structure for O95672
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 ECEL1 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 ECEL1 sirna	RNA Interference (RNAi)
Related Product Information for ECEL1 sirna	MBS8204865 is an siRNA targeting ECEL1. Also known as ECEL1 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit ECEL1 expression using RNA interference
Other Notes	Small volumes of ECEL1 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 ECEL1. It may not necessarily be applicable to this product.

NCBI GI #	595763541
NCBI GeneID	9427
NCBI Accession #	NP_001277716.1
UniProt Primary Accession #	O95672
UniProt Secondary Accession #	Q45UD9; Q53RF9; Q6UW86; Q86TH4; Q9NY95
UniProt Related Accession #	O95672
GenBank Nucleotide #	NM_001290787.1
NCBI Official Full Name	endothelin-converting enzyme-like 1 isoform 2
NCBI Official Synonym Full Names	endothelin converting enzyme-like 1
NCBI Official Symbol	ECEL1
NCBI Official Synonym Symbols	XCE; DA5D; DINE; ECEX
UniProt Protein Name	Endothelin-converting enzyme-like 1
UniProt Synonym Protein Names	Xce protein
Protein Family	Endothelin-converting enzyme
UniProt Gene Name	ECEL1
UniProt Synonym Gene Names	XCE
UniProt Entry Name	ECEL1_HUMAN
NCBI Protein Information	endothelin-converting enzyme-like 1
NCBI Summary for ECEL1	This gene encodes a member of the M13 family of endopeptidases. Members of this family are zinc-containing type II integral-membrane proteins that are important regulators of neuropeptide and peptide hormone activity. Mutations in this gene are associated with autosomal recessive distal arthrogryposis, type 5D. This gene has multiple pseudogenes on chromosome 2. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2014]
UniProt Comments for ECEL1	ECEL1: May contribute to the degradation of peptide hormones and be involved in the inactivation of neuronal peptides. Belongs to the peptidase M13 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; EC 3.4.24.-; Protease Chromosomal Location of Human Ortholog: 2q37.1 Cellular Component: integral to plasma membrane Molecular Function: metallopeptidase activity; metal ion binding; metalloendopeptidase activity Biological Process: respiratory system process; neuropeptide signaling pathway; proteolysis Disease: Arthrogryposis, Distal, Type 5d
Research Articles on ECEL1	**1.** Our clinical findings are consistent with recessive ECEL1 mutations causing variably penetrant orbital dysinnervation phenotypes (ptosis and/or complex strabismus with abnormal synkinesis)
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