ECEL1 siRNA – Endothelin-Converting Enzyme-Like 1 (Rat)

PRODUCT OVERVIEW

Product Name	ECEL1, siRNA
Full Product Name	ECEL1 siRNA (Rat)
Product Gene Name	ECEL1 sirna
Product Synonym Names	DINE; XCE; Endothelin-converting enzyme-like 1; Damage-induced neuronal endopeptidase; Xce protein
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	ECEL1 siRNA (Rat) 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	87,944 Da
3D Structure	ModBase 3D Structure for Q9JHL3
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 rat 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	MBS8232549 is an siRNA targeting ECEL1. Also known as ECEL1 siRNA (Rat). Reactive in Rat. 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 #	11120734
NCBI GeneID	60417

NCBI Accession #	NP_068544.1
UniProt Primary Accession #	Q9JHL3
UniProt Secondary Accession #	Q9Z192
UniProt Related Accession #	Q9JHL3
GenBank Nucleotide #	NM_021776.1
NCBI Official Full Name	endothelin-converting enzyme-like 1
NCBI Official Synonym Full Names	endothelin converting enzyme-like 1
NCBI Official Symbol	Ecel1
NCBI Official Synonym Symbols	Dine
UniProt Protein Name	Endothelin-converting enzyme-like 1
UniProt Synonym Protein Names	Damage-induced neuronal endopeptidase; Xce protein
Protein Family	Endothelin-converting enzyme
UniProt Gene Name	Ecel1
UniProt Synonym Gene Names	Dine; Xce
UniProt Entry Name	ECEL1_RAT
NCBI Protein Information	endothelin-converting enzyme-like 1
NCBI Summary for ECEL1	damage-induced neuronal metallo-endopeptidase; involved in neuroprotection [RGD, Feb 2006]
UniProt Comments for ECEL1	May contribute to the degradation of peptide hormones and be involved in the inactivation of neuronal peptides. Cleaves the synthetic substrate Z-Gly-Gly-Leu-pNA and releases pNA. May protect against C2-ceramide-induced apoptosis.
Research Articles on ECEL1	**1.** Sp1 recruits ATF3, c-Jun, and STAT3 to obtain the requisite synergistic effect in neuronal injury through DINE neuronal injury-inducible gene
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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