LUC7L3 siRNA – Luc7-Like Protein 3 (Human)

PRODUCT OVERVIEW

Product Name	LUC7L3, siRNA
Full Product Name	LUC7L3 siRNA (Human)
Product Gene Name	LUC7L3 sirna
Product Synonym Names	CREAP1; CROP; O48; Luc7-like protein 3; Cisplatin resistance-associated-overexpressed protein; Luc7A; Okadaic acid-inducible phosphoprotein OA48-18; cAMP regulatory element-associated protein 1; CRE-associated protein 1; CREAP-1
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	LUC7L3 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	9,194 Da
OMIM	609434
3D Structure	ModBase 3D Structure for O95232
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 LUC7L3 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 LUC7L3 sirna	RNA Interference (RNAi)
Related Product Information for LUC7L3 sirna	MBS8206645 is an siRNA targeting LUC7L3. Also known as LUC7L3 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit LUC7L3 expression using RNA interference
Other Notes	Small volumes of LUC7L3 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 LUC7L3. It may not necessarily be applicable to this product.

NCBI GI #	52426743
NCBI GeneID	51747
NCBI Accession #	NP_006098.2
UniProt Primary Accession #	O95232
UniProt Secondary Accession #	Q6PHR9; Q9NUY0; Q9P2S7; B3KN54; D3DTY1
UniProt Related Accession #	O95232
GenBank Nucleotide #	NM_006107.3
NCBI Official Full Name	luc7-like protein 3
NCBI Official Synonym Full Names	LUC7-like 3 pre-mRNA splicing factor
NCBI Official Symbol	LUC7L3
NCBI Official Synonym Symbols	CRA; CROP; LUC7A; hLuc7A; CREAP-1; OA48-18
UniProt Protein Name	Luc7-like protein 3
UniProt Synonym Protein Names	Cisplatin resistance-associated-overexpressed protein; Luc7A; Okadaic acid-inducible phosphoprotein OA48-18; cAMP regulatory element-associated protein 1; CRE-associated protein 1; CREAP-1
Protein Family	Luc7-like protein
UniProt Gene Name	LUC7L3
UniProt Synonym Gene Names	CREAP1; CROP; O48; CRE-associated protein 1; CREAP-1
UniProt Entry Name	LC7L3_HUMAN
NCBI Protein Information	luc7-like protein 3
NCBI Summary for LUC7L3	This gene encodes a protein with an N-terminal half that contains cysteine/histidine motifs and leucine zipper-like repeats, and the C-terminal half is rich in arginine and glutamate residues (RE domain) and arginine and serine residues (RS domain). This protein localizes with a speckled pattern in the nucleus, and could be involved in the formation of splicesome via the RE and RS domains. Two alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Aug 2009]
UniProt Comments for LUC7L3	CROP: Binds cAMP regulatory element DNA sequence. May play a role in RNA splicing. Belongs to the Luc7 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding; RNA-binding; Spliceosome Chromosomal Location of Human Ortholog: 17q21.33 Cellular Component: nucleoplasm; nuclear speck; snRNP U1; nucleus Molecular Function: mRNA binding; protein binding; DNA binding Biological Process: mRNA splice site selection; RNA splicing
Research Articles on LUC7L3	**1.** these results show that angiotensin II and hypoxia, signals common to heart failure, result in increased LUC7L3 and RBM25 splicing regulators, increased binding of RBM25 to SCN5A mRNA, increased SCN5A splice variant abundances, decreased full-length SCN5A mRNA and protein, and decreased Na(+) current.
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.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/human-sirna/luc7l3/8206645