E2F2 siRNA – Transcription Factor E2F2 (Human)

PRODUCT OVERVIEW

Product Name	E2F2, siRNA
Full Product Name	E2F2 siRNA (Human)
Product Gene Name	E2F2 sirna
Product Synonym Names	Transcription factor E2F2; E2F-2
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	E2F2 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	47,506 Da
OMIM	600426
3D Structure	ModBase 3D Structure for Q14209
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 E2F2 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 E2F2 sirna	RNA Interference (RNAi)
Related Product Information for E2F2 sirna	MBS8214676 is an siRNA targeting E2F2. Also known as E2F2 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit E2F2 expression using RNA interference
Other Notes	Small volumes of E2F2 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 E2F2. It may not necessarily be applicable to this product.

NCBI GI #	4758226
NCBI GeneID	1870
NCBI Accession #	NP_004082.1
UniProt Primary Accession #	Q14209
UniProt Secondary Accession #	Q7Z6H1; B2R9W1
UniProt Related Accession #	Q14209
GenBank Nucleotide #	NM_004091.3
NCBI Official Full Name	transcription factor E2F2
NCBI Official Synonym Full Names	E2F transcription factor 2
NCBI Official Symbol	E2F2
NCBI Official Synonym Symbols	E2F-2
UniProt Protein Name	Transcription factor E2F2
Protein Family	Transcription factor
UniProt Gene Name	E2F2
UniProt Synonym Gene Names	E2F-2
UniProt Entry Name	E2F2_HUMAN
NCBI Protein Information	transcription factor E2F2
NCBI Summary for E2F2	The protein encoded by this gene is a member of the E2F family of transcription factors. The E2F family plays a crucial role in the control of cell cycle and action of tumor suppressor proteins and is also a target of the transforming proteins of small DNA tumor viruses. The E2F proteins contain several evolutionally conserved domains found in most members of the family. These domains include a DNA binding domain, a dimerization domain which determines interaction with the differentiation regulated transcription factor proteins (DP), a transactivation domain enriched in acidic amino acids, and a tumor suppressor protein association domain which is embedded within the transactivation domain. This protein and another 2 members, E2F1 and E2F3, have an additional cyclin binding domain. This protein binds specifically to retinoblastoma protein pRB in a cell-cycle dependent manner, and it exhibits overall 46% amino acid identity to E2F1. [provided by RefSeq, Jul 2008]
UniProt Comments for E2F2	E2F2: Transcription activator that binds DNA cooperatively with DP proteins through the E2 recognition site, 5'-TTTC[CG]CGC- 3' found in the promoter region of a number of genes whose products are involved in cell cycle regulation or in DNA replication. The DRTF1/E2F complex functions in the control of cell-cycle progression from g1 to s phase. E2F2 binds specifically to RB1 in a cell-cycle dependent manner. Belongs to the E2F/DP family. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 1p36 Cellular Component: nucleoplasm; transcription factor complex Molecular Function: protein binding; DNA binding; transcription factor binding; transcription factor activity Biological Process: transcription initiation from RNA polymerase II promoter; regulation of transcription, DNA-dependent; regulation of cell cycle; mitotic cell cycle
Research Articles on E2F2	**1.** Overall, miR-155 plays an important role in colorectal carcinoma tumorigenesis by negative regulation of its targets including E2F2.
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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