TASP1 siRNA – Threonine Aspartase 1 (Human)

PRODUCT OVERVIEW

Product Name	TASP1, siRNA
Full Product Name	TASP1 siRNA (Human)
Product Gene Name	TASP1 sirna
Product Synonym Names	C20orf13; Threonine aspartase 1; Taspase-1
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	TASP1 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	15,946 Da
OMIM	608270
3D Structure	ModBase 3D Structure for Q9H6P5
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 TASP1 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 TASP1 sirna	RNA Interference (RNAi)
Related Product Information for TASP1 sirna	MBS8211725 is an siRNA targeting TASP1. Also known as TASP1 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit TASP1 expression using RNA interference
Other Notes	Small volumes of TASP1 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 TASP1. It may not necessarily be applicable to this product.

NCBI GI #	98991769
NCBI GeneID	55617
NCBI Accession #	NP_060184.2
UniProt Primary Accession #	Q9H6P5
UniProt Secondary Accession #	Q5TDU9; Q9BQN0; Q9NQ08; Q9NTS6; Q9NXJ2; B7Z690; B7Z963
UniProt Related Accession #	Q9H6P5
GenBank Nucleotide #	NM_017714.2
NCBI Official Full Name	threonine aspartase 1
NCBI Official Synonym Full Names	taspase, threonine aspartase, 1
NCBI Official Symbol	TASP1
NCBI Official Synonym Symbols	C20orf13; dJ585I14.2
UniProt Protein Name	Threonine aspartase 1
Protein Family	Threonine aspartase
UniProt Gene Name	TASP1
UniProt Synonym Gene Names	C20orf13; Taspase-1
UniProt Entry Name	TASP1_HUMAN
NCBI Protein Information	threonine aspartase 1
NCBI Summary for TASP1	This gene encodes an endopeptidase that cleaves specific substrates following aspartate residues. The encoded protein undergoes posttranslational autoproteolytic processing to generate alpha and beta subunits, which reassemble into the active alpha2-beta2 heterotetramer. It is required to cleave MLL, a protein required for the maintenance of HOX gene expression, and TFIIA, a basal transcription factor. Alternatively spliced transcript variants have been described, but their biological validity has not been determined. [provided by RefSeq, Jul 2008]
UniProt Comments for TASP1	TASP1: Protease involved in MLL processing and, consequently, in the correct expression of the early HOXA gene cluster. Belongs to the Ntn-hydrolase family. Protein type: Protease; EC 3.4.25.- Chromosomal Location of Human Ortholog: 20p12.1 Molecular Function: threonine endopeptidase activity Biological Process: positive regulation of transcription, DNA-dependent; proteolysis
Research Articles on TASP1	**1.** inefficient heterodimerization appears to be the mechanism by which inactive Taspase1 variants fail to inhibit wild type Taspase1's activity in trans.
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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