ZP1 siRNA – Zona Pellucida Sperm-Binding Protein 1 (Rat)

PRODUCT OVERVIEW

Product Name	ZP1, siRNA
Full Product Name	ZP1 siRNA (Rat)
Product Gene Name	ZP1 sirna
Product Synonym Names	Zona pellucida sperm-binding protein 1; Zona pellucida glycoprotein 1; Zp-1
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	ZP1 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	67,853 Da
3D Structure	ModBase 3D Structure for O54766
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 ZP1 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 ZP1 sirna	RNA Interference (RNAi)
Related Product Information for ZP1 sirna	MBS8224701 is an siRNA targeting ZP1. Also known as ZP1 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit ZP1 expression using RNA interference
Other Notes	Small volumes of ZP1 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 ZP1. It may not necessarily be applicable to this product.

NCBI GI #	16758240
NCBI GeneID	85271

NCBI Accession #	NP_445961.1
UniProt Primary Accession #	O54766
UniProt Related Accession #	O54766
GenBank Nucleotide #	NM_053509.1
NCBI Official Full Name	zona pellucida sperm-binding protein 1
NCBI Official Synonym Full Names	zona pellucida glycoprotein 1 (sperm receptor)
NCBI Official Symbol	Zp1
UniProt Protein Name	Zona pellucida sperm-binding protein 1
UniProt Synonym Protein Names	Zona pellucida glycoprotein 1; Zp-1
Protein Family	Zona pellucida sperm-binding protein
UniProt Gene Name	Zp1
UniProt Synonym Gene Names	Zp-1
UniProt Entry Name	ZP1_RAT
NCBI Protein Information	zona pellucida sperm-binding protein 1
NCBI Summary for ZP1	glycoprotein component of the zona pellucida [RGD, Feb 2006]
UniProt Comments for ZP1	The mammalian zona pellucida, which mediates species-specific sperm binding, induction of the acrosome reaction and prevents post-fertilization polyspermy, is composed of three to four glycoproteins, ZP1, ZP2, ZP3, and ZP4. ZP1 ensures the structural integrity of the zona pellucida.
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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