IZUMO1 siRNA – Izumo Sperm-Egg Fusion Protein 1 (Rat)

PRODUCT OVERVIEW

Product Name	IZUMO1, siRNA
Full Product Name	IZUMO1 siRNA (Rat)
Product Gene Name	IZUMO1 sirna
Product Synonym Names	Izumo sperm-egg fusion protein 1; Oocyte binding/fusion factor; OBF; Sperm-specific protein izumo
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	IZUMO1 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	43,579 Da
3D Structure	ModBase 3D Structure for Q6AY06
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 IZUMO1 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 IZUMO1 sirna	RNA Interference (RNAi)
Related Product Information for IZUMO1 sirna	MBS828362 is an siRNA targeting IZUMO1. Also known as IZUMO1 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit IZUMO1 expression using RNA interference
Other Notes	Small volumes of IZUMO1 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 IZUMO1. It may not necessarily be applicable to this product.

NCBI GI #	62945384

NCBI GeneID	499152
NCBI Accession #	NP_001017514.1
UniProt Primary Accession #	Q6AY06
UniProt Related Accession #	Q6AY06
GenBank Nucleotide #	NM_001017514.1
NCBI Official Full Name	izumo sperm-egg fusion protein 1
NCBI Official Synonym Full Names	izumo sperm-egg fusion 1
NCBI Official Symbol	Izumo1
UniProt Protein Name	Izumo sperm-egg fusion protein 1
UniProt Synonym Protein Names	Oocyte binding/fusion factor; OBF; Sperm-specific protein izumo
Protein Family	Izumo sperm-egg fusion protein
UniProt Gene Name	Izumo1
UniProt Synonym Gene Names	OBF
UniProt Entry Name	IZUM1_RAT
NCBI Protein Information	izumo sperm-egg fusion protein 1
UniProt Comments for IZUMO1	IZUMO1: Involved in the fertilization process. May be involved in the fusion of the sperm with the egg. Belongs to the Izumo family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral
Research Articles on IZUMO1	**1.** four phosphopeptide changes came from Izumo1, the sperm-egg fusion protein, in the cytoplasmic segment of the protein. 2D-PAGE confirmed that Izumo1 is post-translationally modified during epididymal transit.
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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