UBA5 siRNA – Ubiquitin-Like Modifier-Activating Enzyme 5 (Rat)

PRODUCT OVERVIEW

Product Name	UBA5, siRNA
Full Product Name	UBA5 siRNA (Rat)
Product Gene Name	UBA5 sirna
Product Synonym Names	UBE1DC1; Ubiquitin-like modifier-activating enzyme 5; Ubiquitin-activating enzyme 5; UFM1-activating enzyme; Ubiquitin-activating enzyme E1 domain-containing protein 1
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	UBA5 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	44,895 Da
3D Structure	ModBase 3D Structure for Q5M7A4
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 UBA5 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 UBA5 sirna	RNA Interference (RNAi)
Related Product Information for UBA5 sirna	MBS8236839 is an siRNA targeting UBA5. Also known as UBA5 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit UBA5 expression using RNA interference
Other Notes	Small volumes of UBA5 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 UBA5. It may not necessarily be applicable to this product.

NCBI GI #	57527209

NCBI GeneID	300968
NCBI Accession #	NP_001009669.1
UniProt Primary Accession #	Q5M7A4
UniProt Related Accession #	Q5M7A4
GenBank Nucleotide #	NM_001009669.1
NCBI Official Full Name	ubiquitin-like modifier-activating enzyme 5
NCBI Official Synonym Full Names	ubiquitin-like modifier activating enzyme 5
NCBI Official Symbol	Uba5
NCBI Official Synonym Symbols	Ube1dc1
UniProt Protein Name	Ubiquitin-like modifier-activating enzyme 5
UniProt Synonym Protein Names	UFM1-activating enzyme; Ubiquitin-activating enzyme E1 domain-containing protein 1
UniProt Gene Name	Uba5
UniProt Synonym Gene Names	Ube1dc1; Ubiquitin-activating enzyme 5
UniProt Entry Name	UBA5_RAT
NCBI Protein Information	ubiquitin-like modifier-activating enzyme 5
UniProt Comments for UBA5	UBE1DC1: E1-like enzyme which activates UFM1 and SUMO2. Belongs to the ubiquitin-activating E1 family. UBA5 subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Autophagy; Ubiquitin conjugating system Cellular Component: intracellular membrane-bound organelle; cytoplasm; nucleus; cytosol Molecular Function: metal ion binding; ATP binding Biological Process: regulation of estrogen receptor signaling pathway
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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