ATP6AP2 siRNA – Renin Receptor (Rat)

PRODUCT OVERVIEW

Product Name	ATP6AP2, siRNA
Full Product Name	ATP6AP2 siRNA (Rat)
Product Gene Name	ATP6AP2 sirna
Product Synonym Names	ATP6IP2; Renin receptor; ATPase H(+)-transporting lysosomal accessory protein 2; ATPase H(+)-transporting lysosomal-interacting protein 2; Renin/prorenin receptor
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	ATP6AP2 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	39,082 Da
3D Structure	ModBase 3D Structure for Q6AXS4
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 ATP6AP2 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 ATP6AP2 sirna	RNA Interference (RNAi)
Related Product Information for ATP6AP2 sirna	MBS8208161 is an siRNA targeting ATP6AP2. Also known as ATP6AP2 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit ATP6AP2 expression using RNA interference
Other Notes	Small volumes of ATP6AP2 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 ATP6AP2. It may not necessarily be applicable to this product.

NCBI GI #	347300186

NCBI GeneID	302526
NCBI Accession #	NP_001007092.1
UniProt Primary Accession #	Q6AXS4
UniProt Related Accession #	Q6AXS4
GenBank Nucleotide #	NM_001007091.1
NCBI Official Full Name	renin receptor
NCBI Official Synonym Full Names	ATPase, H+ transporting, lysosomal accessory protein 2
NCBI Official Symbol	Atp6ap2
UniProt Protein Name	Renin receptor
UniProt Synonym Protein Names	ATPase H(+)-transporting lysosomal accessory protein 2; ATPase H(+)-transporting lysosomal-interacting protein 2; Renin/prorenin receptor
Protein Family	Renin receptor
UniProt Gene Name	Atp6ap2
UniProt Synonym Gene Names	Atp6ip2
UniProt Entry Name	RENR_RAT
NCBI Protein Information	renin receptor
UniProt Comments for ATP6AP2	Functions as a renin and prorenin cellular receptor. May mediate renin-dependent cellular responses by activating ERK1 and ERK2. By increasing the catalytic efficiency of renin in AGT/angiotensinogen conversion to angiotensin I, it may also play a role in the renin-angiotensin system (RAS) ().
Research Articles on ATP6AP2	**1.** during the early phase of ANG II-dependent hypertension, the increased (P)RR and COX-2 expression in the renal medulla may contribute to attenuate the vasoconstrictor effects of ANG II on renal hemodynamics
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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