GLRA2 siRNA – Glycine Receptor Subunit Alpha-2 (Rat)

PRODUCT OVERVIEW

Product Name	GLRA2, siRNA
Full Product Name	GLRA2 siRNA (Rat)
Product Gene Name	GLRA2 sirna
Product Synonym Names	Glycine receptor subunit alpha-2; Glycine receptor strychnine-binding subunit
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	GLRA2 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	52,037 Da
3D Structure	ModBase 3D Structure for P22771
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 GLRA2 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 GLRA2 sirna	RNA Interference (RNAi)
Related Product Information for GLRA2 sirna	MBS8203374 is an siRNA targeting GLRA2. Also known as GLRA2 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit GLRA2 expression using RNA interference
Other Notes	Small volumes of GLRA2 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 GLRA2. It may not necessarily be applicable to this product.

NCBI GI #	6980952
NCBI GeneID	24397

NCBI Accession #	NP_036700.1
UniProt Primary Accession #	P22771
UniProt Secondary Accession #	Q91W28
UniProt Related Accession #	P22771
GenBank Nucleotide #	NM_012568.3
NCBI Official Full Name	glycine receptor subunit alpha-2
NCBI Official Synonym Full Names	glycine receptor, alpha 2
NCBI Official Symbol	Glra2
NCBI Official Synonym Symbols	RNNEOGLY
UniProt Protein Name	Glycine receptor subunit alpha-2
UniProt Synonym Protein Names	Glycine receptor strychnine-binding subunit
Protein Family	Glycine receptor
UniProt Gene Name	Glra2
UniProt Entry Name	GLRA2_RAT
NCBI Protein Information	glycine receptor subunit alpha-2
NCBI Summary for GLRA2	glycine gated chloride channel; displays strychnine-sensitive ion channel activity; may play a role in synaptogenesis [RGD, Feb 2006]
UniProt Comments for GLRA2	Glycine receptors are ligand-gated chloride channels. Channel opening is triggered by extracellular glycine. Channel opening is also triggered by taurine and beta-alanine (PubMed:2176511). Plays a role in the down-regulation of neuronal excitability. Contributes to the generation of inhibitory postsynaptic currents. Plays a role in cellular responses to ethanol.
Research Articles on GLRA2	**1.** alpha2 subunits determine the picrotin sensitivity of alpha1alpha2-heteromeric receptors. Direct gating of the alpha2 subunit is not required for this picrotin inhibition.
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/rat-sirna/glra2/8203374