GRINA siRNA – Protein Lifeguard 1 (Mouse)

PRODUCT OVERVIEW

Product Name	GRINA, siRNA
Full Product Name	GRINA siRNA (Mouse)
Product Gene Name	GRINA sirna
Product Synonym Names	LAG; LFG1; NMDARA1; Protein lifeguard 1; Glutamate [NMDA] receptor-associated protein 1; NMDA receptor glutamate-binding subunit
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	GRINA siRNA (Mouse) 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	38,408 Da
3D Structure	ModBase 3D Structure for Q9ESF4
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 mouse GRINA 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 GRINA sirna	RNA Interference (RNAi)
Related Product Information for GRINA sirna	MBS8200225 is an siRNA targeting GRINA. Also known as GRINA siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit GRINA expression using RNA interference
Other Notes	Small volumes of GRINA 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 GRINA. It may not necessarily be applicable to this product.

NCBI GI #	12963551

NCBI GeneID	66168
NCBI Accession #	NP_075657.1
UniProt Primary Accession #	Q9ESF4
UniProt Secondary Accession #	Q8CI25
UniProt Related Accession #	Q9ESF4
GenBank Nucleotide #	NM_023168.3
NCBI Official Full Name	protein lifeguard 1
NCBI Official Synonym Full Names	glutamate receptor, ionotropic, N-methyl D-aspartate-associated protein 1 (glutamate binding)
NCBI Official Symbol	Grina
NCBI Official Synonym Symbols	Lag; Tmbim3; 1110025J15Rik
UniProt Protein Name	Protein lifeguard 1
UniProt Synonym Protein Names	Glutamate [NMDA] receptor-associated protein 1; NMDA receptor glutamate-binding subunit
Protein Family	Protein lifeguard
UniProt Gene Name	Grina
UniProt Synonym Gene Names	Lag; Lfg1; Nmdara1
UniProt Entry Name	LFG1_MOUSE
NCBI Protein Information	protein lifeguard 1
UniProt Comments for GRINA	NMDARA1: Potential apoptotic regulator. Belongs to the BI1 family. LFG subfamily. Protein type: Membrane protein, multi-pass; Membrane protein, integral Cellular Component: Golgi apparatus; membrane; endoplasmic reticulum; integral to membrane Biological Process: endoplasmic reticulum calcium ion homeostasis
Research Articles on GRINA	**1.** In this study, the authors show that TMBIM3 is expressed in the brain including high levels in the hippocampus.
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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