PPP2R2C siRNA – Serine/Threonine-Protein Phosphatase 2a 55 Kda Regulatory Subunit B Gamma Isoform (Rat)

PRODUCT OVERVIEW

Product Name	PPP2R2C, siRNA
Full Product Name	PPP2R2C siRNA (Rat)
Product Gene Name	PPP2R2C sirna
Product Synonym Names	Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B gamma isoform; PP2A subunit B isoform B55-gamma; PP2A subunit B isoform BRgamma; PP2A subunit B isoform PR55-gamma; PP2A subunit B isoform R2-gamma; PP2A subunit B isoform gamma
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	PPP2R2C 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	51,474 Da
3D Structure	ModBase 3D Structure for P97888
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 PPP2R2C 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 PPP2R2C sirna	RNA Interference (RNAi)
Related Product Information for PPP2R2C sirna	MBS8200601 is an siRNA targeting PPP2R2C. Also known as PPP2R2C siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit PPP2R2C expression using RNA interference
Other Notes	Small volumes of PPP2R2C 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 PPP2R2C. It may not necessarily be applicable to this product.

NCBI GI #	16923962
NCBI GeneID	117256
NCBI Accession #	NP_476457.1
UniProt Primary Accession #	P97888
UniProt Related Accession #	P97888
GenBank Nucleotide #	NM_057116.1
NCBI Official Full Name	serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B gamma isoform
NCBI Official Synonym Full Names	protein phosphatase 2, regulatory subunit B, gamma
NCBI Official Symbol	Ppp2r2c
NCBI Official Synonym Symbols	Pr52
UniProt Protein Name	Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B gamma isoform
UniProt Synonym Protein Names	PP2A subunit B isoform B55-gamma; PP2A subunit B isoform BRgamma; PP2A subunit B isoform PR55-gamma; PP2A subunit B isoform R2-gamma; PP2A subunit B isoform gamma
Protein Family	Serine/threonine-protein phosphatase
UniProt Gene Name	Ppp2r2c
UniProt Entry Name	2ABG_RAT
NCBI Protein Information	serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B gamma isoform
NCBI Summary for PPP2R2C	promotes neuronal differentiation; activates the mitogen activated protein (MAP) kinase cascade in neurons [RGD, Feb 2006]
UniProt Comments for PPP2R2C	The B regulatory subunit might modulate substrate selectivity and catalytic activity, and also might direct the localization of the catalytic enzyme to a particular subcellular compartment.
Research Articles on PPP2R2C	**1.** PP2A/Bgamma is a positive regulator of MAP kinase signaling in neurons.
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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