GPR25 siRNA – Probable G-Protein Coupled Receptor 25 (Human)

PRODUCT OVERVIEW

Product Name	GPR25, siRNA
Full Product Name	GPR25 siRNA (Human)
Product Gene Name	GPR25 sirna
Product Synonym Names	Probable G-protein coupled receptor 25
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	GPR25 siRNA (Human) 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	38,779 Da
OMIM	602174
3D Structure	ModBase 3D Structure for O00155
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 human GPR25 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 GPR25 sirna	RNA Interference (RNAi)
Related Product Information for GPR25 sirna	MBS8200486 is an siRNA targeting GPR25. Also known as GPR25 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit GPR25 expression using RNA interference
Other Notes	Small volumes of GPR25 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 GPR25. It may not necessarily be applicable to this product.

NCBI GI #	38194224
NCBI GeneID	2848
NCBI Accession #	NP_005289.2
UniProt Primary Accession #	O00155
UniProt Secondary Accession #	A0AVJ5
UniProt Related Accession #	O00155
GenBank Nucleotide #	NM_005298.3
NCBI Official Full Name	probable G-protein coupled receptor 25
NCBI Official Synonym Full Names	G protein-coupled receptor 25
NCBI Official Symbol	GPR25
UniProt Protein Name	Probable G-protein coupled receptor 25
Protein Family	Probable G-protein coupled receptor
UniProt Gene Name	GPR25
UniProt Entry Name	GPR25_HUMAN
NCBI Protein Information	probable G-protein coupled receptor 25
NCBI Summary for GPR25	This gene is intronless and encodes a member of the G-protein coupled receptor 1 family. G-protein coupled receptors are membrane proteins which activate signaling cascades as a response to extracellular stress. This gene has been linked to arterial stiffness. [provided by RefSeq, Nov 2012]
UniProt Comments for GPR25	GPR25: Orphan receptor. Belongs to the G-protein coupled receptor 1 family. Protein type: Membrane protein, multi-pass; GPCR, family 1; Membrane protein, integral; Receptor, GPCR Chromosomal Location of Human Ortholog: 1q32.1 Cellular Component: integral to plasma membrane Molecular Function: G-protein coupled receptor activity Biological Process: G-protein coupled receptor protein signaling pathway
Research Articles on GPR25	**1.** GPR-25 is homologous to receptors involved in blood pressure regulation.
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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