GLP1R siRNA – Glucagon-Like Peptide 1 Receptor (Human)

PRODUCT OVERVIEW

Product Name	GLP1R, siRNA
Full Product Name	GLP1R siRNA (Human)
Product Gene Name	GLP1R sirna
Product Synonym Names	Glucagon-like peptide 1 receptor; GLP-1 receptor; GLP-1-R; GLP-1R
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	GLP1R 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	53,026 Da
OMIM	138032
3D Structure	ModBase 3D Structure for P43220
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 GLP1R 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 GLP1R sirna	RNA Interference (RNAi)
Related Product Information for GLP1R sirna	MBS8233570 is an siRNA targeting GLP1R. Also known as GLP1R siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit GLP1R expression using RNA interference
Other Notes	Small volumes of GLP1R 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 GLP1R. It may not necessarily be applicable to this product.

NCBI GI #	166795283
NCBI GeneID	2740
NCBI Accession #	NP_002053.3
UniProt Primary Accession #	P43220
UniProt Secondary Accession #	Q2M229; Q99669
UniProt Related Accession #	P43220
GenBank Nucleotide #	NM_002062.3
NCBI Official Full Name	glucagon-like peptide 1 receptor
NCBI Official Synonym Full Names	glucagon-like peptide 1 receptor
NCBI Official Symbol	GLP1R
UniProt Protein Name	Glucagon-like peptide 1 receptor
Protein Family	Glucagon-like peptide 1 receptor
UniProt Gene Name	GLP1R
UniProt Synonym Gene Names	GLP-1 receptor; GLP-1-R; GLP-1R
UniProt Entry Name	GLP1R_HUMAN
NCBI Protein Information	glucagon-like peptide 1 receptor
UniProt Comments for GLP1R	GLP1R: This is a receptor for glucagon-like peptide 1. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase. Belongs to the G-protein coupled receptor 2 family. Protein type: Receptor, GPCR; Membrane protein, multi-pass; GPCR, family 2; Membrane protein, integral Chromosomal Location of Human Ortholog: 6p21 Cellular Component: integral to membrane; plasma membrane Molecular Function: transmembrane receptor activity; glucagon receptor activity Biological Process: G-protein coupled receptor protein signaling pathway; elevation of cytosolic calcium ion concentration; cAMP-mediated signaling; learning and/or memory; adenylate cyclase activation; energy reserve metabolic process; response to stress; regulation of insulin secretion; regulation of heart contraction
Research Articles on GLP1R	**1.** Authors found distinct expression patterns of GLP1R and DPP-IV depending on the neuroendocrine cell types in P-NEN and the anatomical sites in GI-NEN.
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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