HTR3C siRNA – 5-Hydroxytryptamine Receptor 3c (Human)

PRODUCT OVERVIEW

Product Name	HTR3C, siRNA
Full Product Name	HTR3C siRNA (Human)
Product Gene Name	HTR3C sirna
Product Synonym Names	5-hydroxytryptamine receptor 3C; 5-HT3-C; 5-HT3C; Serotonin receptor 3C
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	HTR3C 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	50,220 Da
OMIM	610121
3D Structure	ModBase 3D Structure for Q8WXA8
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 HTR3C 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 HTR3C sirna	RNA Interference (RNAi)
Related Product Information for HTR3C sirna	MBS8220041 is an siRNA targeting HTR3C. Also known as HTR3C siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit HTR3C expression using RNA interference
Other Notes	Small volumes of HTR3C 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 HTR3C. It may not necessarily be applicable to this product.

NCBI GI #	47519867
NCBI GeneID	170572
NCBI Accession #	NP_570126.2
UniProt Primary Accession #	Q8WXA8
UniProt Secondary Accession #	A2RRR5
UniProt Related Accession #	Q8WXA8
GenBank Nucleotide #	NM_130770.2
NCBI Official Full Name	5-hydroxytryptamine receptor 3C
NCBI Official Synonym Full Names	5-hydroxytryptamine (serotonin) receptor 3C, ionotropic
NCBI Official Symbol	HTR3C
UniProt Protein Name	5-hydroxytryptamine receptor 3C
UniProt Synonym Protein Names	Serotonin receptor 3C
Protein Family	5-hydroxytryptamine receptor
UniProt Gene Name	HTR3C
UniProt Synonym Gene Names	5-HT3-C; 5-HT3C
UniProt Entry Name	5HT3C_HUMAN
NCBI Protein Information	5-hydroxytryptamine receptor 3C
NCBI Summary for HTR3C	The product of this gene belongs to the ligand-gated ion channel receptor superfamily. This gene encodes subunit C of the type 3 receptor for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. This receptor causes fast, depolarizing responses in neurons after activation. Genes encoding subunits C, D and E form a cluster on chromosome 3. [provided by RefSeq, Jul 2008]
UniProt Comments for HTR3C	5-HT(3C): This is one of the several different receptors for 5- hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. This receptor is a ligand-gated ion channel, which when activated causes fast, depolarizing responses. It is a cation-specific, but otherwise relatively nonselective, ion channel. Belongs to the ligand-gated ion channel (TC 1.A.9) family. 5-hydroxytryptamine receptor (TC 1.A.9.2) subfamily. HTR3C sub-subfamily. Protein type: Transporter, ion channel; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 3q27.1 Cellular Component: integral to membrane; plasma membrane Molecular Function: extracellular ligand-gated ion channel activity Biological Process: transmembrane transport
Research Articles on HTR3C	**1.** Our study indicates, for the first time, an association between variants of HTR3C and severity of chemotherapy-induced symptoms
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