TAAR9 siRNA – Trace Amine-Associated Receptor 9 (Human)

PRODUCT OVERVIEW

Product Name	TAAR9, siRNA
Full Product Name	TAAR9 siRNA (Human)
Product Gene Name	TAAR9 sirna
Product Synonym Names	TA3; TAR3; TRAR3; Trace amine-associated receptor 9; TaR-9; Trace amine receptor 9; Trace amine receptor 3; TaR-3
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	TAAR9 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	39,016 Da
OMIM	608282
3D Structure	ModBase 3D Structure for Q96RI9
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 TAAR9 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 TAAR9 sirna	RNA Interference (RNAi)
Related Product Information for TAAR9 sirna	MBS8234568 is an siRNA targeting TAAR9. Also known as TAAR9 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit TAAR9 expression using RNA interference
Other Notes	Small volumes of TAAR9 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 TAAR9. It may not necessarily be applicable to this product.

NCBI GI #	110618256
NCBI GeneID	134860
NCBI Accession #	NP_778227.3
UniProt Primary Accession #	Q96RI9
UniProt Related Accession #	Q96RI9
GenBank Nucleotide #	NM_175057.3
NCBI Official Full Name	trace amine-associated receptor 9
NCBI Official Synonym Full Names	trace amine associated receptor 9 (gene/pseudogene)
NCBI Official Symbol	TAAR9
NCBI Official Synonym Symbols	TA3; TAR3; TAR9; TRAR3
UniProt Protein Name	Trace amine-associated receptor 9
UniProt Synonym Protein Names	Trace amine receptor 3; TaR-3
Protein Family	Trace amine-associated receptor
UniProt Gene Name	TAAR9
UniProt Synonym Gene Names	TA3; TAR3; TRAR3; TaR-9; Trace amine receptor 9; TaR-3
UniProt Entry Name	TAAR9_HUMAN
NCBI Protein Information	trace amine-associated receptor 9
NCBI Summary for TAAR9	TAAR9 is a member of a large family of rhodopsin G protein-coupled receptors (GPCRs, or GPRs). GPCRs contain 7 transmembrane domains and transduce extracellular signals through heterotrimeric G proteins.[supplied by OMIM, Jul 2005]
UniProt Comments for TAAR9	TAAR9: Orphan receptor. Could be a receptor for trace amines. Trace amines are biogenic amines present in very low levels in mammalian tissues. Although some trace amines have clearly defined roles as neurotransmitters in invertebrates, the extent to which they function as true neurotransmitters in vertebrates has remained speculative. Trace amines are likely to be involved in a variety of physiological functions that have yet to be fully understood. Belongs to the G-protein coupled receptor 1 family. Protein type: Membrane protein, multi-pass; Membrane protein, integral; Receptor, GPCR; GPCR, family 1 Chromosomal Location of Human Ortholog: 6q23.2 Cellular Component: plasma membrane; integral to membrane Molecular Function: G-protein coupled receptor activity; trace-amine receptor activity Biological Process: G-protein coupled receptor protein signaling pathway
Research Articles on TAAR9	**1.** Observational study of gene-disease association. (HuGE Navigator)
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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