TAAR1 Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	TAAR1, Blocking Peptide
Full Product Name	TAAR1 Peptide - N-terminal region
Product Gene Name	TAAR1 blocking peptide
Product Synonym Gene Name	TA1; TAR1; TRAR1
Sequence	Synthetic peptide located within the following region: NDVRASLYSL MVLIILTTLV GNLIVIVSIS HFKQLHTPTN WLIHSMATVD
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	TAAR1 peptide (MBS3245628) is used for blocking the activity of TAAR1 antibody (MBS3220831)
Molecular Weight	39 kDa
OMIM	609333
Product Categories/Family for TAAR1 blocking peptide	Peptide
Applications Tested/Suitable for TAAR1 blocking peptide	Western Blot (WB)
Related Product Information for TAAR1 blocking peptide	The protein encoded by this gene is a G-protein coupled receptor activated by trace amines. The encoded protein responds little or not at all to dopamine, serotonin, epinephrine, or histamine, but responds well to beta-phenylethylamine, p-tyramine, octopamine, and tryptamine. While primarily functioning in neurologic systems, there is evidence that this gene is involved in blood cell and immunologic functions as well. This gene is thought to be intronless.
Other Notes	Small volumes of TAAR1 blocking peptide 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.
Searchable Terms for TAAR1 purchase	MBS3245628 is a blocking peptide targeting TAAR1. Also known as TAAR1 Peptide - N-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TAAR1. It may not necessarily be applicable to this product.

NCBI GI #	21264324
NCBI GeneID	134864
NCBI Accession #	NP_612200.1
UniProt Primary Accession #	Q96RJ0
UniProt Related Accession #	Q96RJ0
GenBank Nucleotide #	NM_138327.2
NCBI Official Full Name	trace amine-associated receptor 1

NCBI Official Synonym Full Names	trace amine associated receptor 1
NCBI Official Symbol	TAAR1
NCBI Official Synonym Symbols	TA1; TAR1; TRAR1
UniProt Protein Name	Trace amine-associated receptor 1
Protein Family	Trace amine-associated receptor
UniProt Gene Name	TAAR1
UniProt Synonym Gene Names	TA1; TAR1; TRAR1; TaR-1; Trace amine receptor 1
UniProt Entry Name	TAAR1_HUMAN
NCBI Protein Information	trace amine-associated receptor 1
UniProt Comments for TAAR1	TAAR1: Receptor for trace amines, including beta- phenylethylamine (b-PEA), p-tyramine (p-TYR), octopamine and tryptamine, with highest affinity for b-PEA and p-TYR. Unresponsive to classical biogenic amines, such as epinephrine and histamine and only partially activated by dopamine and serotonine. 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. The signal transduced by this receptor is mediated by the G(s)-class of G-proteins which activate adenylate cyclase. Belongs to the G-protein coupled receptor 1 family. Protein type: Receptor, GPCR; Membrane protein, multi-pass; GPCR, family 1; Membrane protein, integral Chromosomal Location of Human Ortholog: 6q23.2 Cellular Component: integral to membrane; plasma membrane Molecular Function: G-protein coupled receptor activity; trace-amine receptor activity Biological Process: G-protein coupled receptor protein signaling pathway
Research Articles on TAAR1	**1.** This study identified a rare heterozygous variant (c.545G>T; p.Cys182Phe) in Trace amine associated receptor 1 gene (TAAR1 6q23.2) in three affected members in a small SZ family.
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