TAS2R16 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	TAS2R16, Blocking Peptide
Full Product Name	TAS2R16 Blocking Peptide
Product Gene Name	TAS2R16 blocking peptide
Product Synonym Names	T2R16; Taste receptor type 2 member 16
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	TAS2R16 peptide (MBS9625329) is used for blocking the activity of TAS2R16 antibody (MBS9606612)
Molecular Weight	33,986 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (122634759..122635754, complement). Location: 7q31.1-q31.3; 7q31
OMIM	103780
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for TAS2R16 blocking peptide	Blocking/Control
Related Product Information for TAS2R16 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of TAS2R16 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 TAS2R16 purchase	MBS9625329 is a blocking peptide targeting TAS2R16.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TAS2R16. It may not necessarily be applicable to this product.

NCBI GI #	8394395
NCBI GeneID	50833
NCBI Accession #	NP_058641.1
UniProt Primary Accession #	Q9NYV7
UniProt Secondary Accession #	Q502V3; Q549U8; Q645W1; A4D0X2

UniProt Related Accession #	Q9NYV7
GenBank Nucleotide #	NM_016945.2
NCBI Official Full Name	taste receptor type 2 member 16
NCBI Official Synonym Full Names	taste receptor, type 2, member 16
NCBI Official Symbol	TAS2R16
NCBI Official Synonym Symbols	T2R16
UniProt Protein Name	Taste receptor type 2 member 16
Protein Family	Taste receptor
UniProt Gene Name	TAS2R16
UniProt Synonym Gene Names	T2R16
UniProt Entry Name	T2R16_HUMAN
NCBI Protein Information	taste receptor type 2 member 16; candidate taste receptor T2R16
NCBI Summary for TAS2R16	This gene encodes a member of a family of candidate taste receptors that are members of the G protein-coupled receptor superfamily. These family members are specifically expressed by taste receptor cells of the tongue and palate epithelia. Each of these apparently intronless genes encodes a 7-transmembrane receptor protein, functioning as a bitter taste receptor. This gene is clustered with another 3 candidate taste receptor genes in chromosome 7 and is genetically linked to loci that influence bitter perception. [provided by RefSeq, Jul 2008]
UniProt Comments for TAS2R16	TAS2R16: Gustducin-coupled receptor implicated in the perception of bitter compounds in the oral cavity and the gastrointestinal tract. Signals through PLCB2 and the calcium-regulated cation channel TRPM5. Belongs to the G-protein coupled receptor T2R family. Protein type: Membrane protein, multi-pass; Membrane protein, integral; Receptor, GPCR; GPCR, T2R family Chromosomal Location of Human Ortholog: 7q31.1-q31.3|7q31 Cellular Component: endoplasmic reticulum; plasma membrane; integral to membrane; trans-Golgi network; external side of plasma membrane Molecular Function: bitter taste receptor activity; protein binding Biological Process: G-protein coupled receptor protein signaling pathway; detection of chemical stimulus involved in sensory perception of bitter taste Disease: Alcohol Dependence
Research Articles on TAS2R16	**1.** Bitter taste receptor polymorphisms in TAS2R16 may be associated with human aging
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