OR4K14 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	OR4K14, Blocking Peptide
Full Product Name	OR4K14 Blocking Peptide
Product Gene Name	OR4K14 blocking peptide
Product Synonym Names	Olfactory receptor 4K14; Olfactory receptor family 4 subfamily K member 14; Olfactory receptor OR14-18 pseudogene; Olfactory receptor OR14-22; OR14-18; OR14-22; OR4K14; OR4KE_HUMAN
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	OR4K14 peptide (MBS9625294) is used for blocking the activity of OR4K14 antibody (MBS9606577)
Molecular Weight	35,053 Da
Chromosome Location	Chromosome: 14; NC_000014.8 (20482420..20483352, complement). Location: 14q11.2
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 OR4K14 blocking peptide	Blocking/Control
Related Product Information for OR4K14 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 OR4K14 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 OR4K14 purchase	MBS9625294 is a blocking peptide targeting OR4K14.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OR4K14. It may not necessarily be applicable to this product.

NCBI GI #	52317249
NCBI GeneID	122740
NCBI Accession #	NP_001004712.1
UniProt Primary Accession #	Q8NGD5
UniProt Secondary Accession #	Q6IEU1; Q96R71

UniProt Related Accession #	Q8NGD5
GenBank Nucleotide #	NM_001004712.1
NCBI Official Full Name	olfactory receptor 4K14
NCBI Official Synonym Full Names	olfactory receptor, family 4, subfamily K, member 14
NCBI Official Symbol	OR4K14
NCBI Official Synonym Symbols	OR14-18; OR14-22
UniProt Protein Name	Olfactory receptor 4K14
UniProt Synonym Protein Names	Olfactory receptor OR14-22
Protein Family	Olfactory receptor
UniProt Gene Name	OR4K14
UniProt Entry Name	OR4KE_HUMAN
NCBI Protein Information	olfactory receptor 4K14; olfactory receptor OR14-22; olfactory receptor OR14-18 pseudogene
NCBI Summary for OR4K14	Olfactory receptors interact with odorant molecules in the nose, to initiate a neuronal response that triggers the perception of a smell. The olfactory receptor proteins are members of a large family of G-protein-coupled receptors (GPCR) arising from single coding-exon genes. Olfactory receptors share a 7-transmembrane domain structure with many neurotransmitter and hormone receptors and are responsible for the recognition and G protein-mediated transduction of odorant signals. The olfactory receptor gene family is the largest in the genome. The nomenclature assigned to the olfactory receptor genes and proteins for this organism is independent of other organisms. [provided by RefSeq, Jul 2008]
UniProt Comments for OR4K14	OR4K14: Odorant receptor (Potential). Belongs to the G-protein coupled receptor 1 family. Protein type: Membrane protein, multi-pass; Receptor, GPCR; GPCR, family 1; Membrane protein, integral Chromosomal Location of Human Ortholog: 14q11.2 Cellular Component: integral to membrane; plasma membrane Molecular Function: G-protein coupled receptor activity; transmembrane receptor activity; olfactory receptor activity Biological Process: G-protein coupled receptor protein signaling pathway; detection of chemical stimulus involved in sensory perception; detection of chemical stimulus involved in sensory perception of smell
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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