Olfactory Receptor 12d2 (OR12D2) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Olfactory receptor 12D2 (OR12D2), Recombinant Protein
Full Product Name	Recombinant Human Olfactory receptor 12D2 (OR12D2)
Product Gene Name	OR12D2 recombinant protein
Product Synonym Gene Name	OR12D2
Product Synonym Names	Recombinant Olfactory receptor 12D2 (OR12D2); Olfactory receptor 12D2; Hs6M1-20 Olfactory receptor OR6-28
Sequence	MLNTTSVTEF LLLGVTDIQE LQPFLFVVFL TIYFISVTGN GAVLMIVISD PRLHSLMYFF LGNLSYLDIC YSTVTLPKML QNFLSTHKAI SFLGCISQLH FFHSLGSTES MLFAVMAFDL SVAICKPLRY TVIMNPQLCT QMAITIWVIG FFHALLHSVM TSRLNFCGSN RIHHFLCDIK PLLKLACGNT ELNQWLLSTV TGTIAMGPFF LTLLSYFYII TYLFFKTRSC SMLCKALSTC ASHFMVVILF YAPVLFTYIH PALESFMDQD RIVAIMYTVV TPVLNPLIYT LRNKEVKGAL GRVIRRL
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	34,813 Da
Sequence Positions	1-307
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
Chromosome Location	Chromosome: 6; NC_000006.11 (29364416..29365448). Location: 6p22.2-p21.31
3D Structure	ModBase 3D Structure for P58182
Species	Homo sapiens (Human)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for OR12D2 recombinant protein	MBS957409 is a recombinant protein targeting OR12D2. Also known as Recombinant Human Olfactory receptor 12D2 (OR12D2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of OR12D2 recombinant protein 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 OR12D2. It may not necessarily be applicable to this product.

NCBI GI #	21450850
NCBI GeneID	26529
NCBI Accession #	NP_039224.2

UniProt Primary Accession #	P58182
UniProt Secondary Accession #	Q5SUN9; Q6IET9; B0S862
UniProt Related Accession #	P58182
GenBank Nucleotide #	NM_013936.3
NCBI Official Full Name	olfactory receptor 12D2
NCBI Official Synonym Full Names	olfactory receptor, family 12, subfamily D, member 2
NCBI Official Symbol	OR12D2
NCBI Official Synonym Symbols	HS6M1-20; DJ994E9.8
UniProt Protein Name	Olfactory receptor 12D2
UniProt Synonym Protein Names	Hs6M1-20; Olfactory receptor OR6-28
Protein Family	Olfactory receptor
UniProt Gene Name	OR12D2
UniProt Entry Name	O12D2_HUMAN
NCBI Protein Information	olfactory receptor 12D2; olfactory receptor OR6-28
NCBI Summary for OR12D2	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 OR12D2	OR12D2: Odorant receptor (Potential). Belongs to the G-protein coupled receptor 1 family. Protein type: Membrane protein, multi-pass; GPCR, family 1; Membrane protein, integral; Receptor, GPCR Chromosomal Location of Human Ortholog: 6p22.2-p21.31 Cellular Component: plasma membrane; integral to 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
Research Articles on OR12D2	**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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/olfactory-receptor-12d2-or12d2/957409