OR3A1 Human Protein

PRODUCT OVERVIEW

Product Name	OR3A1, Protein
Full Product Name	Human OR3A1-Strep full length protein-synthetic nanodisc
Product Gene Name	OR3A1 protein
Product Synonym Names	OLFRA03; OR17-40; OR17-82; OR40
Host	HEK293
Form/Format	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5%-8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with pH lower
Preparation and Storage	Store at -20 degree C to -80 degree C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80 degree C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Molecular Weight	34,609 Da
3D Structure	ModBase 3D Structure for P47881
Tag	C-DYKDDDDK&Strep
Product Categories/Family for OR3A1 protein	Olfactory transduction
Related Product Information for OR3A1 protein	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.
Other Notes	Small volumes of OR3A1 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.
Searchable Terms for OR3A1 purchase	MBS1883312 is a protein targeting OR3A1. Also known as Human OR3A1-Strep full length protein-synthetic nanodisc. Host: HEK293.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OR3A1. It may not necessarily be applicable to this product.

NCBI GI #	289547585
NCBI GeneID	4994
NCBI Accession #	NP_002541.2
UniProt Primary Accession #	P47881
UniProt Secondary Accession #	Q4VB06; Q6IFM4
UniProt Related Accession #	P47881
GenBank Nucleotide #	NM_002550.2

NCBI Official Full Name	olfactory receptor 3A1
NCBI Official Synonym Full Names	olfactory receptor, family 3, subfamily A, member 1
NCBI Official Symbol	OR3A1
NCBI Official Synonym Symbols	OR40; OLFRA03; OR17-40; OR17-82
UniProt Protein Name	Olfactory receptor 3A1
UniProt Synonym Protein Names	Olfactory receptor 17-40; OR17-40; Olfactory receptor OR17-15
Protein Family	Olfactory receptor
UniProt Gene Name	OR3A1
UniProt Synonym Gene Names	OLFRA03; OR17-40
UniProt Entry Name	OR3A1_HUMAN
NCBI Protein Information	olfactory receptor 3A1; olfactory receptor 17-40; olfactory receptor OR17-15
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