TAAR1 Human Protein

PRODUCT OVERVIEW

Product Name	TAAR1, Protein
Full Product Name	Human TAAR1-Strep full length protein-synthetic nanodisc
Product Gene Name	TAAR1 protein
Product Synonym Names	TA1; TAR1; TRAR1
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	39,092 Da
OMIM	609333
3D Structure	ModBase 3D Structure for Q96RJ0
Tag	C-DYKDDDDK&Strep
Product Categories/Family for TAAR1 protein	Full Length Transmembrane Proteins; GPCR; Transmembrane; Druggable Genome
Related Product Information for TAAR1 protein	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. [provided by RefSeq, Nov 2015]
Other Notes	Small volumes of TAAR1 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 TAAR1 purchase	MBS1883640 is a protein targeting TAAR1. Also known as Human TAAR1-Strep full length protein-synthetic nanodisc. Host: HEK293.

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 Secondary Accession #	Q2M1W5; Q3MIH8; Q5VUQ1
UniProt Related Accession #	Q96RJ0
GenBank Nucleotide #	NM_138327.1

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; taR-1; trace amine receptor 1
NCBI Summary for TAAR1	TAAR1 is a G protein-coupled receptor activated by trace amines. Trace amines are endogenous amine compounds that account for less than 1% of the biogenic amines in most brain regions (Bunzow et al., 2001 [PubMed 11723224]).[supplied by OMIM, Mar 2008]
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.** an increase in TAAR1 receptor expression is concomitant with lymphocyte immune activation, suggesting a possible role for TAAR1 in the generation or regulation of an immune response
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/protein/taar1/1883640