

TAAR5 Blocking Peptide (C-term) Synthetic peptide Catalog # BP21290b

## Specification

# TAAR5 Blocking Peptide (C-term) - Product Information

Primary Accession

<u>014804</u>

## **TAAR5 Blocking Peptide (C-term) - Additional Information**

Gene ID 9038

**Other Names** 

Trace amine-associated receptor 5, TaR-5, Trace amine receptor 5, hTaar5, Putative neurotransmitter receptor, TAAR5, PNR

**Target/Specificity** 

The synthetic peptide sequence is selected from aa 236-249 of HUMAN TAAR5

#### Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage** Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions** This product is for research use only. Not for use in diagnostic or therapeutic procedures.

## TAAR5 Blocking Peptide (C-term) - Protein Information

Name TAAR5 {ECO:0000303|PubMed:15718104, ECO:0000312|HGNC:HGNC:30236}

Function

Olfactory receptor specific for trimethylamine, a trace amine (PubMed:<a href="http://www.uniprot.org/citations/23393561" target="\_blank">23393561</a>). Also activated at lower level by dimethylethylamine (PubMed:<a href="http://www.uniprot.org/citations/23393561" target="\_blank">23393561</a>). Trimethylamine is a bacterial metabolite found in some animal odors, and to humans it is a repulsive odor associated with bad breath and spoiled food (PubMed:<a href="http://www.uniprot.org/citations/23393561" target="\_blank">23393561</a>). Trimethylamine-binding causes a conformation change that triggers signaling via G(s)-class of G alpha proteins (GNAL or GNAS) (PubMed:<a href="http://www.uniprot.org/citations/23393561" target="\_blank">23393561</a>).

**Cellular Location** Cell membrane; Multi-pass membrane protein



## **Tissue Location**

Expressed almost exclusively in skeletal muscle and selected areas of the brain, such amygdala, hippocampus, caudate nucleus, thalamus and hypothalamus (PubMed:9464258). Weak expression is also find in substantia nigra (PubMed:9464258)

# **TAAR5 Blocking Peptide (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

#### <u>Blocking Peptides</u>

#### TAAR5 Blocking Peptide (C-term) - Images

## TAAR5 Blocking Peptide (C-term) - Background

Olfactory receptor specific for trimethylamine, a trace amine. Also activated at lower level by dimethylethylamine. Trimethylamine is a bacterial metabolite found in some animal odors, and to humans it is a repulsive odor associated with bad breath and spoiled food. This receptor is probably mediated by the G(s)-class of G-proteins which activate adenylate cyclase.

## **TAAR5 Blocking Peptide (C-term) - References**

Zeng Z.,et al.Biochem. Biophys. Res. Commun. 242:575-578(1998). Lindemann L.,et al.Genomics 85:372-385(2005). Staubert C.,et al.PLoS ONE 5:E11133-E11133(2010). Mungall A.J.,et al.Nature 425:805-811(2003). Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.