

Product datasheet for PH311209

TAS2R38 (NM_176817) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	TAS2R38 MS Standard C13 and N15-labeled recombinant protein (NP_789787)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211209
Predicted MW:	37.9 kDa
Protein Sequence:	>RC211209 protein sequence Red=Cloning site Green=Tags(s) MLTLTRIRTVSYEVRSTFLFISVLEFAVGFLTNAFVFLVNFWDVVKRQALSNSDCVLLCLCSIRFLHGL LFLSAIQLTHFQKLSEPLNHSYQAIIMLWMIANQANLWLAACL SLLYCSKLIRFSHTFLICLASWVSRKI SQMLLGIILCSCICTVLCVWCFFSRPHFTVTTVLFMNNNTRLNWQIKDLNLFYSFLFCYLWSVPPFLLFL VSSGMLTVSLGRHMRMTMKVYTRNSRDPSEAHIKALKSLVSFFCFVVISSCVAFISVPLLILWRDKIGVM VCVGIMAACPSGHAAILISGNAKLRRVMTILLWAQSSLKVRADHKADSRTL TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_789787</u>
RefSeq Size:	1143
RefSeq ORF:	999
Synonyms:	PTC; T2R38; T2R61; THIOT
Locus ID:	5726



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UniProt ID: [P59533](#)

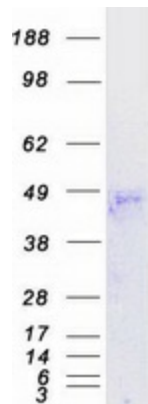
Cytogenetics: 7q34

Summary: This gene encodes a seven-transmembrane G protein-coupled receptor that controls the ability to taste glucosinolates, a family of bitter-tasting compounds found in plants of the Brassica sp. Synthetic compounds phenylthiocarbamide (PTC) and 6-n-propylthiouracil (PROP) have been identified as ligands for this receptor and have been used to test the genetic diversity of this gene. Although several allelic forms of this gene have been identified worldwide, there are two predominant common forms (taster and non-taster) found outside of Africa. These alleles differ at three nucleotide positions resulting in amino acid changes in the protein (A49P, A262V, and V296I) with the amino acid combination PAV identifying the taster variant (and AVI identifying the non-taster variant). [provided by RefSeq, Oct 2009]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Taste transduction

Product images:



Coomassie blue staining of purified TAS2R38 protein (Cat# [TP311209]). The protein was produced from HEK293T cells transfected with TAS2R38 cDNA clone (Cat# [RC211209]) using MegaTran 2.0 (Cat# [TT210002]).