

Recombinant Human TAS1R1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TAS1R1-1956H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TAS1R1 MS Standard C13 and N15-labeled recombinant protein (NP_803884) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a G protein-coupled receptor and is a component of the heterodimeric amino acid taste receptor T1R1+3. The T1R1+3 receptor responds to L-amino acids but not to D-enantiomers or other compounds. Most amino acids that are perceived as sweet activate T1R1+3, and this activation is strictly dependent on an intact T1R1+3 heterodimer. Multiple transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	65 kDa
AA Sequence	MLLCTARLVGLQLLISCCWAFACHSTESSPDFTLPGDYLLAGLFPLHSGCLQVRHRP EVTLCDRSCSFNEHGYHLFQAMRLGVEEINNSTALLPNITLG YQLYDVCSDSANVYA TLRVLSLPGQH HIELQGDLLHYSPTVLAVIGPDSTNRAATTAALLSPFLVPMLEQIHK VHFL LHKDTVAFNDNRDPLSSYNIIAWDWN GPKWTF TVLGSSTWSPVQLNINETKIQ WHGKDNQVPKSVCS SDCLEGHQRVVTGFH HCCFECVPCGAGTFLNKSDLYRCQP CGKEEWAPEGSQTCFPRTVVFLALREHTSWVLLAANTLLLLLLLGTAGLFAWHLDTP VVRSAGGRLCFLMLGSLAAGSGSLY GFFGEPTRPACLLRQALFALGFTIFLSCLTVR

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SFQLIIIFKFSTKVPTFYHAWVQNHGAGLFVMISSAAQLLICLTWLVVWTPLPAREYQ
RFPHLVMLECTETNSLGFILAFLYNGLLSISAFACSYLGKDLPENYNEAKCVTFSLLEN
FVSWIAFFTTASVYDGKYLPAANMMAGLSSLSSGFGGYFLPKCYVILCRPDLNSTEH
FQASIQDYTRRCGSTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	TAS1R1 taste 1 receptor member 1 [Homo sapiens (human)]
Official Symbol	TAS1R1
Synonyms	TAS1R1; taste receptor, type 1, member 1; G protein coupled receptor 70, GPR70; taste receptor type 1 member 1; T1R1; TR1; G protein-coupled receptor 70; G-protein coupled receptor 70; seven transmembrane helix receptor; GM148; GPR70;
Gene ID	80835
mRNA Refseq	NM_177540
Protein Refseq	NP_803884

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MIM 606225

UniProt ID Q7RTX1

SDS-PAGE



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