

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	<pre> MLLCTARLVGLQLLISCCWAFACHSTESSPDFTLPGDYLLAGLFPLHSGCLQVRHRP EVTLCDRSCSFNEHGYPHFQAMRLGVEEINNSTALLPNITLGYPQYLDVCSANVYA TLRVLSLPGQHHEIQLGDLHYSPTVLAVIGPDSTNRAATTAALLSPFLVPMLEQIHK VHFLHDKDTVAFNDNRDPLSSYNIIAWDWNPKWFTVLSSTWSPVQLNINETKIQ WHGKDNQVPKSVCSDDCLEGHQRVVTGFHCCFECVPCGAGTFLNKSDLYRCQP CGKEEWAPEGSQTCFPRTVVFLALREHTSWVLLAANTLLLLLLGLTAGLFAWHLDTP VVRSAAGRLCFLMLGSLAAGSGSLYGGFGEPTRPACLLRQALFALGFTIFLSCLTVR </pre>

 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
 RFPHLVMLECTETNSLGFILAFLYNGLLSISAFACSYLGKDLPENYNEAKCVTFSELLFN
 FVSWIAFFTTASVYDYGKYLPAANMMAGLSSLSSGFGGYFLPKCYVILCRPDLNSTEH
 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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