

# Recombinant Full Length Human TAC1 Protein

**Cat. No.** TAC1-516HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full length Human TAC1 with proprietary tag, Predicted MWt 40.26kDa including the tag.                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 129 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | This gene encodes four products of the tachykinin peptide hormone family, substance P and neurokinin A, as well as the related peptides, neuropeptide K and neuropeptide gamma. These hormones are thought to function as neurotransmitters which interact with nerve receptors and smooth muscle cells. They are known to induce behavioral responses and function as vasodilators and secretagogues. Multiple transcript variants encoding different isoforms have been found for this gene. |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | 40.260kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | MKILVALAVFFLVSTQLFAEEIGANDDLNYWSDWYDSDQIKEELPEPFEHLLQRIARR<br>PKPQQFFGLMGKRDADSSIEKQVALLKALYGHGQISHKRHKTDSEFVGLMGKRALNS<br>VAYERSAMQNYERRR                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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**Storage** Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

**Storage Buffer** pH: 8.00. Constituents: 0.79% Tris HCl, 0.31% Glutathione.

## GENE INFORMATION

**Gene Name** TAC1 tachykinin, precursor 1 [ Homo sapiens ]

**Official Symbol** TAC1

**Synonyms** TAC1; tachykinin, precursor 1; NKNA, TAC2, tachykinin, precursor 1 (substance K, substance P, neurokinin 1, neurokinin 2, neuromedin L, neurokinin alpha, neuropeptide K, neuropeptide gamma); protachykinin-1; neurokinin 1; neurokinin 2; neurokinin alpha

**Gene ID** 6863

**mRNA Refseq** NM\_003182

**Protein Refseq** NP\_003173

**MIM** 162320

**UniProt ID** P20366

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