

Recombinant Human TAC1

Cat. No. TAC1-30838TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human TAC1 with proprietary tag, Predicted MWt 40.26kDa including the tag.
Species	Human
Source	Wheat Germ
ProteinLength	129 amino acids
Description	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.
Molecular Weight	40.260kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.31% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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cycles.

Sequences of amino acids

MKILVALAVFFLVSTQLFAEEIGANDDLNYWSDWYDSDQIKEELPEPFEHLLQRIARR
PKPQQFFGLMGKRADSSIEKQVALLKALYGHGQISHKRHKTDSEFVGLMGKRALNS
VAYERSAMQNYERRR

Sequence Similarities

Belongs to the tachykinin family.

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](#)

Chromosome Location

7q21-q22

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Pathway	Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; Peptide ligand-binding receptors, organism-specific biosystem;
Function	substance P receptor binding;

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