Recombinant Human TAC1, His-tagged

Cat. No. TAC1-7097H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TAC1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	20-129aa
Description	TAC1, also known as protachykinin 1, is a member of the tachykinin peptide hormone family. TAC1 are a family of peptides that have similar biologic activities and share a common C-terminal sequence, phe-X-gly-leu-met-NH2, but have distinct N-terminal sequences that convey receptor specificities. TAC1 is thought to function as neurotransmitters which interact with nerve receptors and smooth muscle cells. It is known to induce behavioral responses and function as vasodilators and secretagogues.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 2M Urea
Molecular Mass	15.6 kDa (135aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMEEIGA NDDLNYWSDW YDSDQIKEEL PEPFEHLLQR IARRPKPQQF FGLMGKRDAD SSIEKQVALLKALYGHGQIS HKRHKTDSFV GLMGKRALNS VAYERSAMQN YERRR

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Purity	>95% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml

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; neuromedin L; neuropeptide gamma; neuropeptide K; NPK; substance K; substance P; PPT; neurokinin A; tachykinin 2; tachykinin, precursor 1 (substance K, substance P, neurokinin 1, neurokinin 2, neuromedin L, neurokinin alpha, neuropeptide K, neuropeptide gamma); NK2; NKNA; TAC2; Hs.2563;
Gene ID	6863
mRNA Refseq	NM_003182
Protein Refseq	NP_003173
MIM	162320

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UniProt ID	P20366
Chromosome Location	7q21-q22
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; Signal Transduction, organism-specific biosystem; Signaling by GPCR, organism-specific biosystem;
Function	substance P receptor binding;

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