Recombinant human Substance P/TAC1 protein

Catalog Number: ATGP1879

PRODUCT INFORMATION

Expression system
E.coli

Domain
20-129aa

UniProt No.
P20366

NCBI Accession No.
NP_003173

Alternative Names
Protachykinin-1, Protachykinin 1, 4930528L02Rik, NK-1, NK1, Nka, Nkna, Neurokinin 2, Neurokinin A, Neurokinin alpha, Neuromedin L, Neuropeptide K, Substance P, Tachykinin precursor 1

PRODUCT SPECIFICATION

Molecular Weight
15.6 kDa (135aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 2M urea

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE, Denatured

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human TAC1 protein, fused to His-tag

at N-terminus, was expressed in E. coli.

Amino acid Sequence

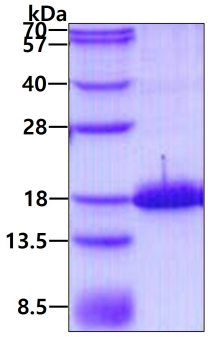
<MGSSHHHHHH SSGLVPRGSH MGSHM>EEIGA NDDLNYWSDW YDSDQIKEEL PEPFEHLLQR IARRPKPQQF FGLMGKRDAD SSIEKQVALL KALYGHGQIS HKRHKTDSFV GLMGKRALNS VAYERSAMQN YERRR

General References

Advenier C. et al. (1997) Eur Respir J. 10:1892-1906.
Bannon MJ. et al. (1992) Brain Res Mol Brain Res. 12:225-231.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.