

# Recombinant human Syntaxin 1A protein

Catalog Number: STX0706

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-226aa

### UniProt No.

Q16623

### NCBI Accession No.

NP\_004594.1

### Alternative Names

STX1A, STX1, Syntaxin 1A, Neuron-specific antigen HPC-1, Syntaxin-1A, HPC 1, Neuron specific antigen HPC1, STX1, Syntaxin 1A brain.

## PRODUCT SPECIFICATION

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### Molecular Weight

26.1 kDa (226aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 1mM DTT, 10% glycerol

### Purity

> 95% by SDS-PAGE

### Tag

Non-Tagged

### Application

SDS-PAGE

### 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

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### Description

Syntaxin is membrane integrated Q-SNARE protein participating in exocytosis. Syntaxin is composed of an N-terminal regulatory domain (Habc), a SNARE domain (known as H3), and a single C-terminal transmembrane domain. The SNARE (H3) domain binds to both synaptobrevin and SNAP-25 forming the core SNARE complex. Recombinant syntaxin 1A protein (1-226aa) contains N-terminal domain (Habc) and t<sub>1</sub>SNARE domain (H3 domain) and this protein was overexpressed in E. coli and purified by using the conventional column

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chromatography techniques.

## Amino acid Sequence

MKDRTQELRT AKDSDDDDDDV AVTVDRDRFM DEFFEQVEEI RGFIDKIAEN VEEVKRKHS A ILASPNPDEK TKEELEELMS  
DIKKTANKVR SKLKSIEQSI EQEGLNRSS ADLRIRKTOH STLSRKFVEV MSEYNATQSD YRERCKGRIQ RQLEITGRTT  
TSEELEDMLE SGNPAIFASG IIMDSSISKQ ALSEIETRHS EIIKLENSIR ELHDMFMDMA MLVESQ

## General References

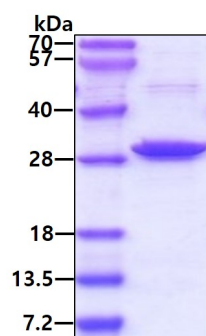
Han X., et al. (2004) Science. 304:289-292

Woodbury DJ. et al. (2000) Cell Biology International. 24(11):809-818.

## DATA

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### SDS-PAGE



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