

# Recombinant human Complexin-1 protein

Catalog Number: CPX0901

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-134aa

### UniProt No.

O14810

### NCBI Accession No.

NP\_006642

### Alternative Names

CPXL1, CPX1, Synaphin-2, Complexin 1, Complexin I, CPX1, Synaphin 2,

## PRODUCT SPECIFICATION

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### Molecular Weight

17.1 kDa (154aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

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

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### 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

Complexin1 belongs to a family of SNARE complex binding proteins that were suggested to be either facilitators or inhibitors of vesicle exocytosis. Complexin 1 exhibits reduced Ca<sup>2+</sup>-triggered fast neurotransmitter release at hippocampal glutamatergic synapses, indicating that this protein is a positive regulator of transmitter release. In contrast, it inhibits SNARE-mediated liposome and cell fusions in vitro, which lead to the hypothesis that it acts

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as fusion clamps of synaptic exocytosis. Recombinant Complexin 1 protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

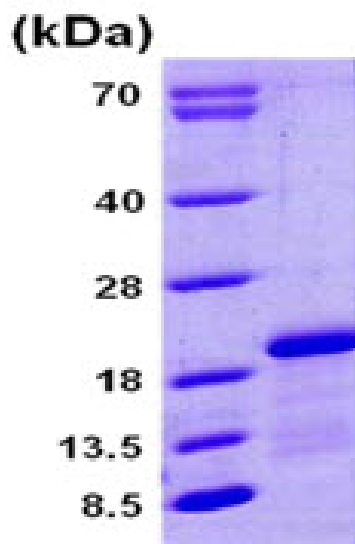
MGSSHHHHHH SGLVPRGSH MEFVMKQALG GATKDMGKML GGDEEKDPDA AKKEEERQEA LRQAEEERKA  
KYAKMEAERE AVRQGIRDKY GIKKKEEEREA EAQAAMEANS EGSLTRPKKA IPPGCGDEVE EEDESILDTV IKYLPGPLQD  
MLKK

## General References

- Salimi K, et al. (2008) *Synapse*, 273-82
- Giraud CG, et al. (2006) *Science*, 676-80
- Tang J, et al. (2006) *Cell*, 1175-87

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3 ug)