Recombinant human Complexin-1 protein

Catalog Number: CPX0901

PRODUCT INFORMATION

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

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

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 Ca2+-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

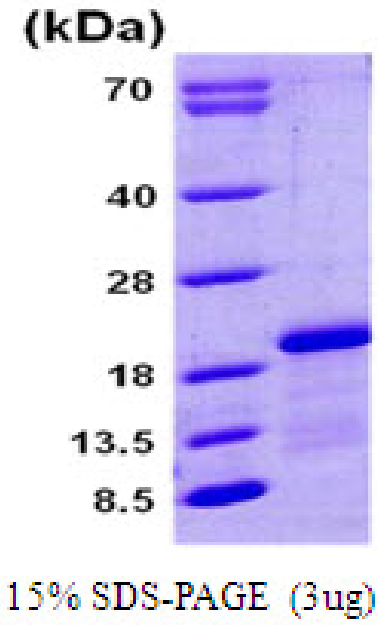
MGSSHHHHHH SSGLVPRGSH MEFVMKQALG GATKDMGKML GGDEEKDPDA AKKEEERQEA LRQAEEERKA KYAKMEAERE AVRQGIRDKY GIKKKEEREA EAQAAMEANS EGSLTRPKKA IPPGCGDEVE EEDESILDTV IKYLPGPLQD MLKK

General References

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

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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