

Recombinant Human Complexin 1, His-tagged

Cat. No. CPLX1-305H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Complexin 1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (154 aa, 17.1 kDa).
Species	Human
Source	E.coli
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 ²⁺ -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 as fusion clamps of synaptic exocytosis.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.
Molecular Weight	17.1 kDa (154 aa) (Real molecular weight on SDS-PAGE will be shift up).
Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Endotoxin Level	< 1.0 EU per 1 µg of protein (determined by LAL method).

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Sequence
MGSSHHHHHH SSSLVPRGSH MEFVMKQALG GATKDMGKML GGDEEKDPDA
AKKEEERQEA LRQAEERKA KYAKMEAERE AVRQGIRDKY GIKKKEEREA
EAQAAMEANS EGSLTRPKKA IPPGCGDEVE EEDESILDTV IKYLPGPLQD MLKK

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.

GENE INFORMATION

Gene Name [CPLX1](#)

Synonyms CPLX1; complexin 1; CPX1; CPX-I; CPLX1; CPX I; Complexin I; complexin 1 synaphin 2; Synaphin-2.

Gene ID [10815](#)

mRNA Refseq [NM_006651.3](#)

Protein Refseq [NP_006642.1](#)

MIM [605032](#)

UniProt ID [O14810](#)

Chromosome Location 4p16.3

Pathway Synaptic Transmission.

Function syntaxin binding.

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