



Product Datasheet

Product Name	Complexin-1 Human Recombinant
Cata No	CB501502
Source	<i>Escherichia Coli.</i>
Synonyms	CPLX-1, CPXI, CPX-I, CPX1, CPX-1, Synaphin2, Synaphin-2, Complexin-1, Complexin I, CPX I, CPLX1.

Description

CPLX1 is part of the SNARE family complex binding proteins that are catalysts or inhibitors of vesicle exocytosis. CPLX1 shows reduced Ca²⁺-triggered fast neurotransmitter release at hippocampal glutamatergic synapses, indicating that CPLX1 is a positive regulator of transmitter release. In contrast, CPLX1 inhibits SNARE-mediated liposome and cell fusions in vitro, that result in hypothesis thus acts as a fusion clamp of synaptic exocytosis. CPLX1 regulates a late step in synaptic vesicle exocytosis. CPLX1 takes part in glucose-induced secretion of insulin by pancreatic beta-cells.

CPLX1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 154 amino acids (1-134) and having a total molecular mass of 17.1kDa which includes a 20 amino acids His-Tag fused at N-terminus.

Physical Appearance

Sterile Filtered colorless solution.

Purity

Greater than 90% by SDS-PAGE

Formulation

The CPLX1 protein solution contains 20mM Tris-HCl pH-8 and 10% glycerol.

Stability

CPLX1 although stable 4°C for 4 weeks, should be stored desiccated below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.

Sequence

MGSSHHHHH SSGLVPRGSH MEFVMKQALG
GATKDMGKML GGDEEKDPDA AKKEEERQEA
LRQAEERKA KYAKMEAERE
AVRQGIRDKYGIKKKEEREA EAQAAMEANS
EGSLTRPKKA IPPGCGDEVE EEDESILDTV
IKYLPGLQD MLKK.