
Product Data Sheet

Product Name: CPLX1 Human
 Cat. No.: GP23210
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CPLX-1; CPXI; CPX-I; CPX1; CPX-1; Synaphin2; Synaphin-2; Complexin-1; Complexin I; CPX I; CPLX1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MEFVMKQALG GATKDMGKML GGDEEKDPDA AKKEEERQEA LRQAEEERKA KYAKMEAERE AVRQGIRDKYGIKKKEEREA EAQAAMEANS EGSLTRPKKA IPPGCGDEVE EEDESILDTV IKYLPGPLQD MLKK.		
Formulation	The CPLX1 protein solution contains 20mM Tris-HCl pH-8 and 10% glycerol.		

Introduction

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CPLX1 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 154 amino acids (1-134 a.a) and having a molecular mass of 17.1kDa (molecular weight on SDS-PAGE will

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appear higher).The CPLX1 is purified by proprietary chromatographic techniques.

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