

Recombinant Human CPLX2 Protein (Asp2-Lys134), His tagged

Cat. No. CPLX2-1704H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CPLX2 (Asp2-Lys134) fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Asp2-Lys134
Description	Complexin-2 (CPLX2), a member of the complexin/synaphin family, is a soluble pre-synaptic protein believed to regulate neurotransmitter release from pre-synaptic terminals. Complexins are soluble proteins that regulate the activity of soluble N-ethylmaleimide-sensitive factor attachment protein receptor (SNARE) complexes necessary for vesicle fusion. Complexins are unable to bind to monomeric SNARE proteins but bind with high affinity to ternary SNARE complexes and with lower affinity to target SNARE complexes. Complexin 1 (CX1) and complexin 2 (CX2) are presynaptic proteins that modulate neurotransmitter release and are used as markers of inhibitory and excitatory synapses, respectively. CPLX2 is localized in pre-synaptic terminals in mature brain. The G71-P89 region of CPLX2 is essential and sufficient for preferential axonal distribution. CPLX2 participates in the Ca(2+)-sensitive regulatory pathway for zymogen granule exocytosis. Complexin-2 is a key player in normal neurological function, and its downregulation could lead to changes in neurotransmitter release sufficient to cause significant behavioural abnormalities such

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as depression. It is involved in synaptogenesis and the modulation of neurotransmitter release.

Form	Lyophilized powder/frozen liquid
Molecular Mass	17.17 kDa
Purity	>90% as determined by SDS-PAGE
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	CPLX2 complexin 2 [Homo sapiens (human)]
Official Symbol	CPLX2
Synonyms	CPLX2; complexin 2; complexin-2; CPX 2; DKFZp547D155; CPX II; synaphin 1; synaphin-1; complexin II; CPX2; Hfb1; 921-L; CPX-2; MGC138492;
Gene ID	10814

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mRNA Refseq	NM_001008220
Protein Refseq	NP_001008221
MIM	605033
UniProt ID	Q6PUV4

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