

Product Data Sheet

CPLX3 Protein, Human (HEK293, His)

Cat. No.:	HY-P76848
Synonyms:	Complexin-3; Complexin III; CPX
Species:	Human
Source:	HEK293
Accession:	Q8WVH0 (M1-K154)
Gene ID:	594855
Molecular Weight:	Approximately 27-33 kDa

Inhibitors

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Screening Libraries

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Proteins

PROPERTIES
AA Sequence
Appearance
Formulation
Endotoxin Level
Reconsititution
Storage & Stability
Shipping

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DESCRIPTION

Background

CPLX3, a complexin protein, intricately modulates the SNARE protein complex, thereby playing a pivotal role in the regulation of synaptic vesicle fusion. Its significance extends to the maintenance of synaptic ultrastructure in the adult retina, highlighting its involvement in fundamental neuronal processes. Functionally, CPLX3 exerts a positive influence on synaptic transmission by modulating the availability of synaptic vesicles and facilitating neurotransmitter exocytosis, particularly at photoreceptor ribbon synapses in the retina. Additionally, CPLX3 contributes to the suppression of tonic photoreceptor activity and baseline 'noise' through the inhibition of Ca(2+) vesicle tonic release, while promoting evoked synchronous and asynchronous Ca(2+) vesicle release. The molecular basis of its regulatory role lies in its interaction with the SNARE core complex, specifically binding to SNAP25, VAMP2, and STX1A, underscoring its multifaceted involvement in

the intricate machinery of neuronal communication.

Caution: Product has not been fully validated for medical applications. For research use only.

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