

CDKL2 Protein, Human, Recombinant (His)

General Information

Synonyms:	KKIAMRE;P56;cyclin-dependent kinase-like 2 (CDC2-related kinase)
Protein Construction:	A DNA sequence encoding the human CDKL2 (Q92772) (Met 1-His 493) was expressed, with a polyhistidine tag at the N-terminus. Predicted N terminal: Met
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	Q92772
Molecular Weight:	58.3 kDa (predicted); 63 kDa (reducing conditions)

QC Testing

Biological Activity:	Kinase activity untested
Purity:	> 80 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as sterile 20 mM Tris, 500 mM NaCl, pH 7.4, 10% gly.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Cyclin-dependent kinase-like 2 (Cdkl2) is a member of cdc2-related serine / threonine protein kinase family and it is found expressed in various brain regions, including the cerebral cortex, entorinal cortex, hippocampus, amygdala, and dorsal thalamus. The high expression in these brain regions suggests that Cdkl2 may have functions in cognition and emotion processes. Cdkl2 accumulates primarily in the cytoplasm, with lower levels in the nucleus.

Reference

Sassa T, et al. (2003) Postnatal expression of Cdkl2 in mouse brain revealed by LacZ inserted into the Cdkl2 locus. *Cell and Tissue Research*. 315 (2): 147-56.

Rosenblatt J, et al. (1992) Human cyclin-dependent kinase 2 is activated during the S and G2 phases of the cell cycle and associates with cyclin A. *PNAS*. 89 (7): 2824-8.

Mironov V, et al. (1999) Cyclin-Dependent Kinases and Cell Division in Plants-The Nexus. *The Plant Cell*. 11 (4): 509-22.

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