

Human CDKL2 Protein (His Tag)

Catalog Number: 11191-H07B



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

KKIAMRE; P56; 5330436L21Rik; AI505225; KKIAMRE; Kkm

Protein Construction:

A DNA sequence encoding the human CDKL2 (Q92772) (Met 1-His 493) was expressed, with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 85 % as determined by SDS-PAGE

Bio Activity:

Kinase activity untested

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human CDKL2 consists of 512 amino acids and has a calculated molecular mass of 58.3 kDa. It migrates as an approximately 63 kDa band in SDS-PAGE under reducing conditions as predicted.

Formulation:

Supplied as sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% gly

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

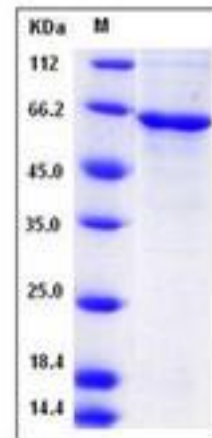
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

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.

References

- 1.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.
- 2.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.
- 3.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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