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Product Information

MemDX™ Membrane Protein Human CDK1 (Cyclin dependent kinase 1) Full Length

Cat. No.: **MPC3378K**
This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human CDK1 membrane protein expressed in *E.coli*. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
CDK1

Protein Length
Full length

Protein Class
Receptor

Sequence
MEDYTKIEKIGEGTYGVVYKGRHKTTGQVVAMKKIRLESEEEGVPSTAIR
EISLLKELRHPNIVSLQDVLMQDSRLYLIFEFLSMDLKKYLDSIPPGQYM
DSSLVKSYLYQILQGIVFCHSRRVLHRDLKPQNLLIDDKGTIKLADFGLA
RAFGIPIRVYTHEVVTLWYRSPEVLLGSARYSTPVDIWSIGTIFAELATK
KPLFHGDSEIDQLFRIFRALGTPNNEVWPEVESLQDYKNTFPKWKPGSLA
SHVKNLDENGLDLLSKMLIYDPAKRISGKMALNHPYFNDLDNQIKKM

Product Description

Expression Systems
E.coli

Tag
Based on specific requirements

Protein Format
Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form
Liquid

Storage
Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw

cycles.

Target

Target Protein

CDK1

Full Name

Cyclin dependent kinase 1

Introduction

The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitotic cyclins stably associate with this protein and function as regulatory subunits. The kinase activity of this protein is controlled by cyclin accumulation and destruction through the cell cycle. The phosphorylation and dephosphorylation of this protein also play important regulatory roles in cell cycle control. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Alternative Names

CDK1; CDC2; CDC28A; P34CDC2; cyclin-dependent kinase 1; cell cycle controller CDC2; cell division control protein 2 homolog; cell division cycle 2, G1 to S and G2 to M; cell division protein kinase 1; p34 protein kinase; Cyclin dependent kinase 1

Gene ID

983

UniProt ID

P06493