Product Data Sheet

Product Name:	CCNB1 Human
Cat. No.:	GP22434
Batch No.:	1

Product Data

Purity	>98%	Source	E.coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	G2/mitotic-specific cyclin-B1; cyclin B1; CCNB.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMALRVT RNSKINAENK AKINMAGAKR VPTAPAATSK PGLRPRTALG DIGNKVSEQL QAKMPMKKEA KPSATGKVID KKLPKPLEKV PMLVPVPVSE PVPEPEPEPE PEPVKEEKLS PEPILVDTAS PSPMETSGCA PAEEDLCQAF SDVILAVNDV DAEDGADPNL CSEYVKDIYA YLRQLEEEQA VRPKYLLGRE VTGNMRAILI DWLVQVQMKF RLLQETMYMT VSIIDRFMQN NCVPKKMLQL VGVTAMFIAS KYEEMYPPEI GDFAFVTDNT YTKHQIRQME MKILRALNFG LGRPLPLHFL RRASKIGEVD VEQHTLAKYL MELTMLDYDM VHFPPSQIAA GAFCLALKIL DNGEWTPTLQ HYLSYTEESL LPVMQHLAKN VVMVNQGLTK HMTVKNKYAT SKHAKISTLP QLNSALVQDL AKAVAKV.		
Formulation	The CCNB1 solution (0.25mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 150mM NaCl and 10% glycerol.		

Introduction

Cyclin B1 (CCNB1) is a regulatory protein involved in mitosis. CCNB1 creates a complex with p34(cdc2) to form the maturation-promoting factor (MPF). CCNB1 is vital for the control of the cell cycle at the G2/M (mitosis) transition. CCNB1 builds up steadily during the G2 and is immediately destroyed at mitosis. The 2 alternative transcripts produce a constitutively expressed transcript and a cell cycle-regulated transcript which is expressed predominantly during G2/M phase. These transcripts are a result of alternate transcription initiation sites.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Background

CCNB1 Human Recombinant produced in E. coli is a single polypeptide chain containing 457 amino acids (1-433) and having a molecular mass of 50.9 kDa.CCNB1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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