9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

RPRD1B Human

Regulation Of Nuclear Pre-MRNA Domain Containing 1B Human Recombinant RCP1909

Product Overview

Name	RPRD1B Human
Description	
Regulation Of Nuclear Pre-MRNA Domain Containing 1B Human Recombinant	
Accession (Primary)	Q9NQG5
Synonyms	
Regulation of nuclear pre-mRNA domain-containing protein 1B, C20orf77, CREPT, dJ1057B20.2, NET60.	
Introduction	
Regulation of nuclear pre-mRNA domain-containing protein 1B (RPRD1B) interacts with phosphorylated C-terminal heptapeptide repeat domain (CTD) of the largest RNA polymerase II subunit POLR2A, and participates in dephosphorylation of the CTD. RPRD1B stimulates binding of RNA polymerase II to the CCDN1 promoter and to the termination region before the poly-A site but decreases its binding after the poly-A site. RPRD1B inhibits RNA polymerase II from reading through the 3' end termination site and may allow it to be drafted back to the promoter through promotion of the formation of a chromatin loop. In addition, RPRD1B enhances the transcription of several other cell cycle-related genes including CDK2, CDK4, CDK6 and cyclin-E but not CDKN1A, CDKN1B or cyclin-A. RPRD1B also promotes cell proliferation.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered clear solution.	
Formulation	
RPRD1B protein solution (1mg/ml) in Phosphate buffered saline (pH7.4), 20% glycerol and 1mM DTT.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer 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.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MGS MSSFSES ALEKKLSELS NSQQSVQTLS LWLIHHRKHA GPIVSVWHRE	

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LRKAKSNRKL TFLYLANDVI QNSKRKGPEF TREFESVLVD AFSHVAREAD EGCKKPLERL LNIWQERSVY GGEFIQQLKL SMEDSKSPPP KATEEKKSLK RTFQQIQEEE DDDYPGSYSP QDPSAGPLLT EELIKALQDL ENAASGDATV RQKIASLPQE VQDVSLLEKI TDKEAAERLS KTVDEACLLL AEYNGRLAAE LEDRRQLARM LVEYTQNQKD VLSEKEKKLE EYKQKLARVT QVRKELKSHI QSLPDLSLLP NVTGGLAPLP SAGDLFSTD.

Precautions

RPRD1B Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9NQG5)