
Product Data Sheet

Product Name: RPRD1B Human

Cat. No.: GP24425

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Regulation of nuclear pre-mRNA domain-containing protein1B; C20orf77; CREPT; dj1057B20.2; NET60.		
Amino Acid Sequence	MGSSHHHHHSSGLVPRGSH MGSMSSFSESALEKKLSELS NSQQSVQTLS LWLIHHRKHA GPIVSVWHRE LRKAKSNRKL TFLYLANDVI QNSKRKGPEFTREFESVLVD AFSHVAREAD EGCKKPLERL LNIWQERSVY GGEFIQQLKL SMEDSKSPPP KATEEKKSLKRTFQQIQEEE DDDYPGSYSP QDPSAGPLLT EELIKALQDL ENAASGDATV RQKIASLPQE VQDVSLLKITDKEAAERLS KTVDEACLLL AEYNGRLAAE LEDRRQLARM LVEYTQNQKD VLSEKEKKLE EYKQKLARVTQVRKELKSHI QSLPDLSELLP NVTGGLAPLP SAGDLFSTD.		
Formulation	RPRD1B protein solution (1mg/ml) in Phosphate buffered saline (pH7.4), 20% glycerol and 1mM DTT.		

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.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

RPRD1B Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 349 amino acids (1-326 a.a) and having a molecular mass of 39.3kDa. RPRD1B is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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