

RPRD1B Protein, Human (HEK293, N-His)

Cat. No.:	HY-P701252
Synonyms:	Regulation of nuclear pre-mRNA domain-containing protein 1B; C20orf77; CREPT
Species:	Human
Source:	HEK293
Accession:	AAH33629.1 (M1-D326)
Gene ID:	58490
Molecular Weight:	37-42 kDa

PROPERTIES

AA Sequence

```

M S S F S E S A L E   K K L S E L S N S Q   H S V Q T L S L W L   I H H R K H A G P I
V S V W H R E L R K   A K S N R K L T F L   Y L A N D V I Q N S   K R K G P E F T R E
F E S V L V D A F S   H V A R E A D E G C   K K P L E R L L N I   W Q E R S V Y G G E
F I Q Q L K L S M E   D S K S P P P K A T   E E K K S L K R T F   Q Q I Q E E E D D D
Y P G S Y S P Q D P   S A G P L L T E E L   I K A L Q D L E N A   A S G D A T V R Q K
I A S L P Q E V Q D   V S L L E K I T D K   E A A E R L S K T V   D E A C L L L A E Y
N G R L A A E L E D   R R Q L A R M L V E   Y T Q N Q K D V L S   E K E K K L E E Y K
Q K L A R V T Q V R   K E L K S H I Q S L   P D L S L L P N V T   G G L A P L P S A G
D L F S T D
  
```

Biological Activity

Data is not available.

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O.

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

RPRD1B, also known as Ku70-binding protein 5-Hera or CREPT, is a necessary scaffolding protein that maintains genetic integrity by regulating resolution of R-loops at both the transcription termination and DNA double-strand break (DSB) repair

levels^[1]. RPRD1B is upregulated in various cancers and regulates genome stability and transcription termination^[2]. In endometrial cancers, RPRD1B accelerates cell cycle through up-regulating Cyclin D1, CDK4, and CDK6 (main regulators of the G1/S phase transition during cell cycle)^[3]. In addition, RPRD1B enhance transcription of CCND1 and promotes cell proliferation by interacting with RNA polymerase II. RPRD1B enhances the β -Catenin-TCF4 transcriptional activity in response to Wnt signaling^[4].

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA