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# Recombinant human RRM2 protein

Catalog Number: ATGP0582

#### PRODUCT INFORMATION

# **Expression system**

E.coli

#### **Domain**

1-389aa

#### UniProt No.

P31350

#### **NCBI Accession No.**

NP 001025.1

#### **Alternative Names**

Ribonucleoside-diphosphate reductase subunit M2, R2, RR2M, Ribonucleoside-diphosphate reductase subunit M2 Ribonucleotide reductase M2 subunit, Ribonucleotide reductase small subunit,

## **PRODUCT SPECIFICATION**

# **Molecular Weight**

47 kDa (409aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.1M NaCl

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

# **Application**

SDS-PAGE

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

### **Description**

RRM2, also known as ribonucleotide reductase M2, is an enzyme that catalyzes the formation of deoxyribonucleotides from ribonucleotides. This protein plays a critical role in regulating the total rate of DNA synthesis so that DNA to cell mass is maintained at a constant ratio during cell division and DNA repair. Recombinant human RRM2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques



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# **Amino acid Sequence**

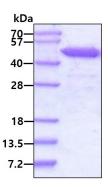
<MGSSHHHHHH SSGLVPRGSH> MLSLRVPLAP ITDPQQLQLS PLKGLSLVDK ENTPPALSGT RVLASKTARR IFQEPTEPKT KAAAPGVEDE PLLRENPRRF VIFPIEYHDI WQMYKKAEAS FWTAEEVDLS KDIQHWESLK PEERYFISHV LAFFAASDGI VNENLVERFS QEVQITEARC FYGFQIAMEN IHSEMYSLLI DTYIKDPKER EFLFNAIETM PCVKKKADWA LRWIGDKEAT YGERVVAFAA VEGIFFSGSF ASIFWLKKRG LMPGLTFSNE LISRDEGLHC DFACLMFKHL VHKPSEERVR EIIINAVRIE QEFLTEALPV KLIGMNCTLM KQYIEFVADR LMLELGFSKV FRVENPFDFM ENISLEGKTN FFEKRVGEYQ RMGVMSSPTE NSFTLDADF

#### **General References**

Torrents E, et al. (2002) J Mol Evol. 55(2):138-52 Herrick J,et al. (2007) Mol Microbiol. 63(1):22-34

# **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

