

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, RR2, 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

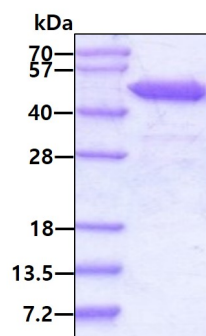
<MGSSHHHHHH SSGLVPRGSH> MLSLRVPLAP ITDPQQLQLS PLKGLSLVDK ENTTPALSGT RVLASKTARR IFQEPTPEKT
KAAAPGVEDE PLLRENPRRF VIFPIEYHDI WQMYKKAAS FWTAEVDLS KDIQHWESLK PEERYFISHV LAFFAASDGI
VNENLVERFS QEVQITEARC FYGFQIAMEN IHSEMYSLI DTYIKDPKER EFLFNAIETM PCVKKKADWA LRWIGDKEAT
YGERVVAFAA VEGIFFSGSF ASIFWLKCRG LMPGLTFSNE LISRDEGLHC DFLCLMFKHL VHKPSEERVV 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.