

Recombinant Full Length Human Ribonucleotide Reductase M2, His-tagged

Cat. No. RRM2-705H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RRM2 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 47.0 kDa (409aa).
Species	Human
Source	E.coli
Protein Length	1-389 a.a.
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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.1M NaCl.
Purity	> 85% by SDS – PAGE.
Concentration	1.0 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SGLVPRGSH MLSLRVPLAP ITDPQQQLQS PLKGLSLVDK ENTPPALSGT RVLASKTARR IFQEPTPKT KAAAPGVEDE PLLRENPRRF VIFPIEYHDI WQMYKKA EAS FWTAEEVDLS KDIQHWESLK PEERYFISHV

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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.

Storage

can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

RRM2 ribonucleotide reductase M2 [Homo sapiens]

Synonyms

ribonucleotide reductase M2; R2; RR2; RR2M; RRM2; ribonucleoside-diphosphate reductase subunit M2; OTTHUMP00000115511; OTTHUMP00000214026; ribonucleotide reductase small chain; ribonucleotide reductase small subunit; ribonucleotide reductase M2 polypeptide; Ribonucleotide reductase small chain; Ribonucleotide reductase small subunit; EC 1.17.4.1

Gene ID

6241

mRNA Refseq

NM_001034

Protein Refseq

NP_001025

MIM

180390

UniProt ID

P31350

Chromosome

2p25-p24

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Location	
Pathway	Glutathione metabolism; Metabolic pathways; Purine metabolism; Pyrimidine metabolism; p53 signaling pathway; Cell Cycle, Mitotic; Metabolism of nucleotides
Function	class I ribonucleotide reductase activity; oxidoreductase activity; protein binding; ribonucleoside-diphosphate reductase activity; transition metal ion binding

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