

Ribonucleoside-diphosphate reductase large subunit Recombinant Protein | RRM1 recombinant protein

Recombinant Human Ribonucleoside-diphosphate reductase large subunit

CATALOG # AAA81666	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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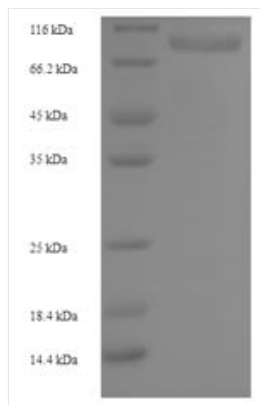
PRODUCT SYNONYMS

Ribonucleoside-diphosphate reductase large subunit; Recombinant Human Ribonucleoside-diphosphate reductase large subunit; Ribonucleoside-diphosphate reductase subunit M1; Ribonucleotide reductase large subunit; RRM1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-792aa; Full Length.
Sequence	MHVIKRDGRQ ERVMFDKITS RIQKLCYGLN MDFVDPAQIT MKVIQGLYSY VTTVELDTLA AETAATLTTK HPDYAILAAR IAVSNLHKET KKVFSVDMED LYNINPHNG KHSPMVAKST LDIVLANKDR LNSAIYDRD FSYNYFGFKT LERSYLLKIN GKVAERPQHM LMRVSVGIHK EDIDAAIETY NLLSERWFTH ASPTLFNAGT NRPQLSSCFL LSMKDDSIIEG IYDTLKQCAL ISKSAGGIGV AVSCIRATGS YIAGTNGNSN GLVPMLRVYN NTARYVDQGG NKRPGAFIY LEPWHLDFE FLDLKKNTGK EEQRARDLFF ALWIPDLFMK RVETNQDWSL MCPNECPGLD EVWGEEFEKL YASYEKQGRV RKVVKAQQLW YAIIESQTET GTPYMLYKDS CNRKSNNQNL GTIKCSNLCT EIVEYTSKDE VAVCNLASLA LNMYVTSEHT YDFKKLA EVT KVVVRNLNKI IDINYYPVPE ACLSNKRHRP IGIGVQGLAD AFILMRYPFE SAEQLLNKQ IFETIYYGAL EASCDLAKEQ GPYETIEGSP VSKGILQYDM WNVPTDLWD WKVLKEKIAK YGIRNSLLIA PMPTASTAQI LGNNESIEPY TSNITRRVL SGEFQIVNPH LLKDLTERGL WHEEMKNQII ACNGSIQSIP EIPDDLKQLY KTVWEISQKT VLKMAAERGA FIDQSQSLNI HIAEPNYGKL TSMHFYGWKQ GLKTGMYLRL TRPAANPIQF TLNKEKLKDK EKVSKEEEEEK ERN TAAMVCS LENRDECLMC GS
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for RRM1 recombinant protein	Provides the precursors necessary for DNA synthesis. Catalyzes the biosynthesis of deoxyribonucleotides from the corresponding ribonucleotides.
Product Categories/Family for RRM1 recombinant protein	Epigenetics and Nuclear Signaling
References	Human M1 subunit of ribonucleotide reductase cDNA sequence and expression in stimulated lymphocytes.Parker N.J., Begley C.G., Fox R.M.Nucleic Acids Res. 19:3741-3741(1991) Sequence analysis of the large and small subunits of human ribonucleotide reductase.Pavloff N., Rivard D., Masson S., Shen S.-H., Mes-Masson A.-M.DNA Seq. 2:227-234(1992) A 1.4-Mb high-resolution physical map and contig of chromosome segment 11p15.5 and genes in the LOH11A metastasis suppressor region.Bepler G., O'Brian K.C., Kim Y.-C., Schreiber G., Pitterle D.M.Genomics 55:164-175(1999) Human R1 subunit of ribonucleotide reductase (RRM1) 5' flanking region of the gene.Parker N.J., Begley C.G., Fox R.M.Genomics 19:91-96(1994) Human ribonucleotide reductase. Activation and inhibition by analogs of ATP.Harrington J.A., Spector T.Biochem. Pharmacol. 42:759-763(1991) Wild-type p53 regulates human ribonucleotide reductase by protein-protein interaction with p53R2 as well as hRRM2 subunits.Xue L., Zhou B., Liu X., Qiu W., Jin Z., Yen Y.Cancer Res. 63:980-986(2003) Characterization of enzymatic properties of human ribonucleotide reductase holoenzyme reconstituted in vitro from hRRM1, hRRM2, and p53R2 subunits.Qiu W., Zhou B., Darwish D., Shao J., Yen Y.Biochem. Biophys. Res. Commun. 340:428-434(2006) Lysine acetylation targets protein complexes and co-regulates major cellular functions.Choudhary C., Kumar C., Gnad F., Nielsen M.L., Rehman M., Walther T.C., Olsen J.V., Mann M.Science 325:834-840(2009) Initial characterization of the human central proteome.Burkard T.R., Planyavsky M., Kaupe I., Breitwieser F.P., Buerckstuemmer T., Bennett K.L., Superti-Furga G., Colinge J.BMC Syst. Biol. 5:17-17(2011) Enzyme regulation. IRBIT is a novel regulator of ribonucleotide reductase in higher eukaryotes.Arnaoutov A., Dasso M.Science 345:1512-1515(2014) Structural basis for allosteric regulation of human ribonucleotide reductase by nucleotide-induced oligomerization.Fairman J.W., Wijerathna S.R., Ahmad M.F., Xu H., Nakano R., Jha S., Prendergast J., Welin R.M., Flodin S., Roos A., Nordlund P., Li Z., Walz T., Dealwis C.G.Nat. Struct. Mol. Biol. 18:316-322(2011)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506749
NCBI GeneID	6240
NCBI Accession #	NP_001024.1
NCBI GenBank Nucleotide #	NM_001033.4
UniProt Accession #	P23921 ; Q9UNN2
Molecular Weight	106.1 kDa
NCBI Official Full Name	ribonucleoside-diphosphate reductase large subunit isoform 1
NCBI Official Synonym Full Names	ribonucleotide reductase catalytic subunit M1
NCBI Official Symbol	RRM1
NCBI Official Synonym Symbols	R1; RR1; RIR1
NCBI Protein Information	ribonucleoside-diphosphate reductase large subunit
UniProt Protein Name	Ribonucleoside-diphosphate reductase large subunit
UniProt Gene Name	RRM1
UniProt Synonym Gene Names	RR1
UniProt Entry Name	RIR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.