

Recombinant Human Ribonucleoside-diphosphate reductase large subunit(RRM1)

Catalog No: #AP70729

Package Size: #AP70729-1 20ug #AP70729-2 100ug #AP70729-3 1mg

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Description

Product Name	Recombinant Human Ribonucleoside-diphosphate reductase large subunit(RRM1)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-792aaSequence Info:Full Length
Other Names	Ribonucleoside-diphosphate reductase subunit M1Ribonucleotide reductase large subunit
Accession No.	P23921
Calculated MW	106.1 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MHVIKRDGRQERVMFDKITSRIQKLCYGLNMDFVDPAQITMKVIQGLYSGVTTVELDTLAAETAATLTTKHPDY AIIAARIAVSNLHKETKKVFSVDMEDLYNYINPHNGKHSPMVAKSTLDIVLANKDRLNSAIIYDRDFSNYNYFGFK TLERSYLLKINGKVAERPQHMLMRVSVGIHKEDIDAAIETYNLLSERWFTHASPTLFNAGTNRPQLSSCFLLSM KDDSIIEGYDTLKQCALISKSAGGIGVAVSCIRATGSYIAGTNGNSNGLVPMRLRVYNNNTARYVDQGGNKRPGAF AIYLEPWHLDFEFDLKNTGKEEQRRARDLFFALWIPDLFMKRVETNQDWLSMCPNECPGLDEVWGEEFEKL YASYEKQGRVRKVVKAQQLWYAIIESQTETGTPYMLYKDCSNRKSNNQLGTIKCSNLCTEIVEYTSKDEVAV CNLASLALNMYVTSEHTYDFKKLAEVTKVVRNLNKIIDINYPVPEACLSNKRHRPIGIVQGLADAFILMRYPF ESAEQLLNKQIFETIYYGALEASCDLAKEQGPYETIEGSPVSKGILQYDMWNVPTDLWDWKVLKEKIAKYGI RNSLLIAPMPTASTAQILGNNEIEPYTSNIYTRRVLSGEFQIVNPHLLKDLTERGLWHEEMKNQIIACNGSIQSI PEIPDDLKQLYKTVWEISQKTVLKMAAERGAFIDQSQSLNIHIAEPNYGKLTSMHFYGWKQGLKTGMYYLRTR PAANPIQFTLNKEKLDKEKVSKEEEEEKERNTAAMVCSLENRDECLMCGS
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Provides the precursors necessary for DNA synthesis. Catalyzes the biosynthesis of deoxyribonucleotides from the corresponding ribonucleotides.

References

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)Research Topic:Epigenetics and Nuclear Signaling

Note: This product is for in vitro research use only and is not intended for use in humans or animals.