

Recombinant Escherichia coli Ribonucleoside-diphosphate reductase 1 subunit beta(nrdB)

Catalog No: #AP70950

Package Size: #AP70950-1 20ug #AP70950-2 100ug #AP70950-3 1mg

Description

Product Name	Recombinant Escherichia coli Ribonucleoside-diphosphate reductase 1 subunit beta(nrdB)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-376aaSequence Info:Full Length
Other Names	Protein B2;Protein R2Ribonucleotide reductase 1
Accession No.	P69924
Calculated MW	59.4 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	AYTTFSQTKNDQLKEPMFFGQPVNVARYDQQKYDIFEKLIKLSFFWRPEEVDVSRDRIDYQALPEHEKHIFI SNLKYQTLDSIQGRSPNVALLPLISPELETWVETWAFSETHRSYTHIIRNIVNDPSVVFDDIVTNEIQKRAE GISSYYDELIEMTSYWHLLGEGTHTVNGKTVTVSLRELKKLYLCLMSVNALEAIRFYVSFACSFAPAERELME GNAKIIRLIARDEALHLTGTQHMLNLLRSGADDPMAEIAEECKQECYDLFVQAAQKEKDWADYLFRDGS MIG LNKDILCQYVEYITNIRMQAVGLDLPFQTRSNPIPWINTWLVDNVQVAPQEVEVSSYLVGQIDSEVDTDDL SN FQL
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. R2 contains the tyrosyl radical required for catalysis.

References

Characterization of Y122F R2 of Escherichia coli ribonucleotide reductase by time-resolved physical biochemical methods and X-ray crystallography.Tong W., Burdi D., Riggs-Gelasco P., Chen S., Edmondson D., Huynh B.H., Stubbe J., Han S., Arvai A., Tainer J.Biochemistry 37:5840-5848(1998) Research Topic:Others

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