

Recombinant Escherichia coli DNA ligase(ligA)

Catalog No: #AP71013

Package Size: #AP71013-1 20ug #AP71013-2 100ug #AP71013-3 1mg

Description

Product Name	Recombinant Escherichia coli DNA ligase(ligA)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-671aaSequence Info:Full Length
Other Names	Polydeoxyribonucleotide synthase [NAD(+)]
Accession No.	P15042
Calculated MW	77.6 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MESIEQQLTELRTTLRHHEYLYHVMDAPEIPDAEYDRLMRELRELETKHPELITPDSPTQRVGAAPLAAFSQIR HEVPMLSLDNVFDEESFLAFNKRVDRLKNNEKVTWCCELKLDGLAVSILYENGVLVSAATRGGTTGEDIT NVRTIRAIPKLHGENIPARLEVRGEVFLPQAGFEKINEDARRTGKVFANPRNAAAGSLRQLDPRITAKRPLTF FCYGVGVLEGGELPDTHLGRLLQFKKWGLPVSDRVTLCESAEEVLAFYHKVEEDRPTLGFDIDGVVIVKNSLA QQEQLGFVARAPRWAVAFKFPAQEQMTFVRDVEFQVGRTGAITPVARLEPVHVAGVLVSNATLHNADEIERL GLRIGDKVIRRAGDVIPQVVNVLSERPEDTREVVFPTHCPVCGSDVERVEGEAVARCTGGGICGAQRKESL KHFVSRRAMDVDGMGDKIIDQLVEKEYVHTPADLFLKLTAGKLTGLERMGPKSAQNVVNALEKAKETTFARFLY ALGIREVGEATAAGLAAYFGTLEALEAASIEELQKVPDVGIVVASHVHNFFAEESNRNVISELLAEGVHWPAPIVI NAEEIDSPFAGKTVVLTGSLSQMSRDDAKARLVELGAKVAGSVSKKTDLVIAGEAAGSKLAKAQELGIEVIDEA EMLRLLGS
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

DNA ligase that catalyzes the formation of phosphodiester linkages between 5'-phosphoryl and 3'-hydroxyl groups in double-stranded DNA using NAD as a coenzyme and as the energy source for the reaction. It is essential for DNA replication and repair of damaged DNA.

References

Structure-guided mutational analysis of the OB, HhH, and BRCT domains of Escherichia coli DNA ligase.Wang L.K., Nair P.A., Shuman S.J. Biol. Chem. 283:23343-23352(2008)Research Topic:Others

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