

Recombinant Escherichia coli LIGA Protein (1-671 aa), His-tagged

Cat. No. LIGA-886E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Escherichia coli (strain K12) LIGA Protein (1-671 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length.
Species	E.coli
Source	E.coli
ProteinLength	1-671 aa
Description	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.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	77.6 kDa
AA Sequence	MESIEQQLTELRTTLRHHEYLYHVMDAPEIPDAEYDRLMRELRELETKHPELITPDSP TQRVGAAPLAAFSQIRHEVPMLSLDNVFDEESFLAFNKRVDRLKNNEKVTWCCEL KLDGLAVSILYENGLVLSAATRGGTGTGEDITSNVRTIRAIPKLHGENIPARLEVRGE VFLPQAGFEKINEDARRTGKVFANPRNAAAGSLRQLDPRITAKRPLTFFCYGVGVL EGGELPDTHLGRLLQFKKWGLPVSDRVTLCESAAEEVLAFYHKVEEDRPTLGFDIDG

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

VVIKVNSLAQQEQLGFVARAPRWAVAFKFPAQEQMVFVRDVEFQVGRTGAITPVAR
LEPVHVAGVLVSNATLHNADEIERLGLRIGDKVVIRRAGDVIPQVVNVVLSERPEDTR
EVVFPTHCPVCGSDVERVEGEAVARCTGGLICGAQRKESLKHVFSRRAMDVDGMG
DKIIDQLVEKEYVHTPADLFLKLTAGKLTGLERMGPKSAQNVVNALEKAKETTFARFLY
ALGIREVGEATAAGLAAYFGTLEALEAASIEELQKVPDVGIVVASHVHNFFAEESNRN
VISELLAEGVHWPAPIVINAAEEIDSPFAGKTVVLTGSLSQMSRDDAKARLVELGAKVA
GSVSKKTDLVIAGEAAGSKLAKAQELGIEVIDEAEMLRLLGS

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with concentration instruction is sent along with the products.

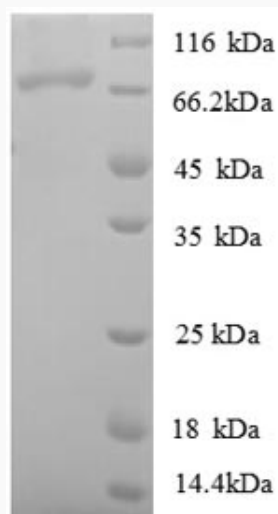
GENE INFORMATION

UniProt ID [P15042](#)

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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