

Recombinant Human LIG1, His-tagged

Cat. No. LIG1-26930TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 484-919 of Human DNA Ligase I with a N terminal His tag; predicted MWt 50kDa:
Species	Human
Source	E.coli
ProteinLength	484-919 a.a.
Description	LIG1 encodes DNA ligase I, with functions in DNA replication and the base excision repair process. Mutations in LIG1 that lead to DNA ligase I deficiency result in immunodeficiency and increased sensitivity to DNA-damaging agents.
Conjugation	HIS
Form	Lyophilised: Reconstitution with 96 µl aqua dest.
Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
Sequences of amino acids	GKGKTAEARKTWLEEQGMILKQTFCEVPDLDRIPVLLH GLERLPEHCKLSPGIPLK PMLAHPTRGISEVLKRFEAA AFTCEYKYDGGQRAQIHALEGGEVKIFSRNQEDNTGK YP DIISRIPIKIKLPSVTSFILDTEAVAWDREKKQIQPFQVLT TRKRKEVDASEIQVQVC

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LYAFDLIYLNAGESLVREPLSR RRQLRENFBVETEGEFVFATSLDTKDIEQIAEFLEQS
V KDSCEGLMVKTLVDVDATEIAKRSHNWLKLLKDYLDGV GDTLDLVVIGAYLGRGK
RAGRYGGFLLASYDEDSEELQAI CKLGTGFSDEELEEHHQSLKALVLPSPRPYVRID
GAVI PDHWLDPSAVWEVKCADLSLSPIYPAARGLVDSKGIS LRFPRFIRVREDKQ
PEQATTSAQVACLYRKQSQIQNQGEDSGSDPEDTY

GENE INFORMATION

Gene Name [LIG1 ligase I, DNA, ATP-dependent \[Homo sapiens \]](#)

Official Symbol [LIG1](#)

Synonyms LIG1; ligase I, DNA, ATP-dependent; DNA ligase 1;

Gene ID [3978](#)

mRNA Refseq [NM_000234](#)

Protein Refseq [NP_000225](#)

MIM [126391](#)

Uniprot ID [P18858](#)

Chromosome Location 19q13.2-q13.3

Pathway Base Excision Repair, organism-specific biosystem; Base excision repair, organism-specific biosystem; Base excision repair, conserved biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Chromosome Maintenance, organism-specific biosystem;

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Function

ATP binding; DNA binding; DNA ligase (ATP) activity; DNA ligase activity; ligase activity;

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