

Active Recombinant Full Length Human LIG1 Protein, C-Flag-tagged

Cat. No. LIG1-196HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human LIG1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a member of the ATP-dependent DNA ligase protein family. The encoded protein functions in DNA replication, recombination, and the base excision repair process. Mutations in this gene that lead to DNA ligase I deficiency result in immunodeficiency and increased sensitivity to DNA-damaging agents. Disruption of this gene may also be associated with a variety of cancers. Alternative splicing results in multiple transcript variants.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Enzyme activity
Molecular Mass	101.6 kDa
AA Sequence	MQRSIMSFFHPKKEGKAKKPEKEASNSSRETEPPPKAALKEWNGVSESDSPVKRP GRKAARVLGSEGEE EDEALSPAKGQKPALDCSQVSPPRPATSPENNASLSDTSPM DSSPSGIPKRRTARKQLPKRTIQEVLEEQ SEDEDREAKRKKEEEEEETPKESLTEAE VATEKEGEDGDQPTTPPKPLKTSKAETPTESVSEPEVATKQE LQEEEEQTKPPRA

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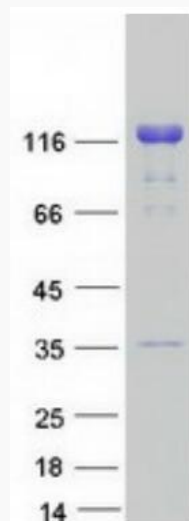
PKTLSSFFTPRKPAVKKEVKEEPEGAPGKEGAAEGPLDPSGYNPAKNNYHPVEDAC
 WKPQKQVPYLAVARTFEKIEEV SARLRMVETLSNLLRSVVALSPDLLPVLYLSLNHL
 GPPQQGLELGVG DGVLLKAVAQATGRQLESVRAEAAEKGDVGLVAENSRSTQRL
 MLPPPPLTASGVFSKFRDIARLTGSAST AKKIDIIGLFLVACRHSERFIARSLSGRLR
 LGLAEQSVLAALSQAVSLTPPGQEFPPAMVDAGKGKTAE ARKTWLEEQGMILKQTF
 CEVPDLDRIPVLLHGLERLPEHCKLSPGIPLKPMLAHPTRGISEVLKRFEA AFTCE
 YKYDGQRAQIHAELEGGEVKIFSRNQEDNTGKYPDIISRIPKIKLPSVTSFILDTEAVAW
 DREKK QIQPFQVLTRKRKEVDASEIQVQVCLYAFDLIYLNAGESLVREPLSRRRQLL
 RENFVETEGEFVFATSLD TKDIEQIAEFLEQSVKDSCEGLMVKTLDVDATYEIAKRSH
 NWLKLKKDYLDGVGDTLDLVVIGAYLGRGK RAGRYGGFLLASYDEDSEELQAICKL
 GTGFSDEELEEHHQSLKALVLPSPRPYVRIDGAVIPDHWLDPSA VWEVKCADLSLS
 PIYPAARGLVDSKIGISLRFPRFIRVREDKQPEQATTS AQVACLYRKQSQIQNQQGE
 D
 SGSDPEDTYTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Base excision repair, DNA replication, Mismatch repair, Nucleotide excision repair

Full Length

Full L.

GENE INFORMATION**Gene Name** [LIG1 DNA ligase 1 \[Homo sapiens \(human\) \]](#)**Official Symbol** [LIG1](#)**Synonyms** [LIG1](#); [IMD96](#); [hLig1](#)**Gene ID** [3978](#)**mRNA Refseq** [NM_000234.3](#)**Protein Refseq** [NP_000225.1](#)**MIM** [126391](#)**UniProt ID** [P18858](#) 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



Coomassie blue staining of purified LIG1 protein.

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