



Recombinant Human LIG1 Protein Product Manual

1. Product Basic Information

Product No.: REP07352

Protein Name: Dna Ligase Ligase I, Dna, Atp-Dependent (LIG1)

Aliases: LIG1; IMD96; hLig1; DNA ligase ligase I, DNA, ATP-dependent; polydeoxyribonucleotide synthase [ATP] 1

UniProt ID: P18858

UniProt Link: <https://www.uniprot.org/uniprotkb/P18858/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Full Length (1-919aa)

Molecular Weight: 128.7kDa

Protein Tag: N-terminal GST-tagged

2. Amino Acid Sequence (1-919aa)

MQRSIMSFFHPKKEGKAKKPEKEASNSSRETEPPPKAALKEWNGVSESDSPVKR
PGRKAARVLGSEGEEDDEALSPAKGQKPALDCSQVSPRPATSPENNASLSDTSP
MDSSPSGIPKRRTARKQLPKRTIQEVLEEQSEDEDREAKRKKEEEEEETPKESLTE
AEVATEKEGEDGDQPTTPPKPLKTSKAETPTESVSEPEVATKQELQEEEEQTKPPR
RAPKTLSSFFTTPRKPAPVKKKEEPEGAPGKEGAAEGPLDPSGYNPAKNNYHPVE
DACWKPGQKVPYLAVARTFEKIEEVSARLRMVETLSNLLRSVVALSPPDLLPVLYLS
LNHLGPPQQGLELGVGDGVLLKAVAQATGRQLESVRAEAAEKGDVGLVAENSRST
QRLMLPPPPLTASGVFSKFRDIARLTGSASTAKKIDIIKGLFVACRHSEARFIARSLSG
RLRLGLAEQSVLAALSQAVSLTPPGQEFPAMVDAGKGKTAEARKTWLEEQGMILK
QTFCEVPDLDRIPVLLHGLERLPEHCKLSPGIPLKPMLAHPTRGISEVLKRFEAAAF
TCEYKYDGQRAQIHAELEGGEVKIFSRNQEDNTGKYPDIISRIPKIKLPSVTSFILDTEA
VAWDREKKQIQPFQVLTTRKRKEVDASEIQVQVCLYAFDLIYLNAGESLVREPLSRRR
QLLRENFVETEGEFVFATSLDTKDIEQIAEFLEQSVKDSCEGLMVKTLDVDATEIAK
RSHNWLKLLKDYLDGVGDTLDLVVIGAYLGRGKRAGRYGGFLLASYDEDSEELQAI
CKLGTGFSDEELEEHHQSLKALVLPSPRPYVRIDGAVIPDHWLDPSAVWEVKCADL
SLSPIYPAARGLVDSKGISLRFPRFIRVREDKQPEQATTSAQVACLYRKQSQIQNQ
QGEDSGSDPEDTY



3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant Human LIG1 full length protein (1-919aa) expressed in E.coli. The protein is with GST tag at the N-terminus, which facilitates protein purification, detection and identification. LIG1, also known as LIGI or IMD96 or hLig1, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.