

T4 ligase Protein, T4 phage (His)

Cat. No.:	HY-P78938
Synonyms:	T4 ligase, T4 phage (His)
Species:	Others
Source:	E. coli
Accession:	P00970
Gene ID:	1258680
Molecular Weight:	Approximately 55.3 kDa

PROPERTIES

AA Sequence	<pre> M I L K I L N E I A S I G S T K Q K Q A I L E K N K D N E L L K R V Y R L T Y S R G L Q Y Y I K K W P K P G I A T Q S F G M L T L T D M L D F I E F T L A T R K L T G N A A I E E L T G Y I T D G K K D D V E V L R R V M M R D L E C G A S V S I A N K V W P G L I P E Q P Q M L A S S Y D E K G I N K N I K F P A F A Q L K A D G A R C F A E V R G D E L D D V R L L S R A G N E Y L G L D L L K E E L I K M T A E A R Q I H P E G V L I D G E L V Y H E Q V K K E P E G L D F L F D A Y P E N S K A K E F A E V A E S R T A S N G I A N K S L K G T I S E K E A Q C M K F Q V W D Y V P L V E I Y S L P A F R L K Y D V R F S K L E Q M T S G Y D K V I L I E N Q V V N N L D E A K V I Y K K Y I D Q G L E G I I L K N I D G L W E N A R S K N L Y K F K E V I D V D L K I V G I Y P H R K D P T K A G G F I L E S E C G K I K V N A G S G L K D K A G V K S H E L D R T R I M E N Q N Y Y I G K I L E C E C N G W L K S D G R T D Y V K L F L P I A I R L R E D K T K A N T F E D V F G D F H E V T G L </pre>
Appearance	Solution.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	T4 ligase is a DNA ligase enzyme expressed during the early stages of lytic development in the T4 bacteriophage life cycle. This enzyme is integral to T4 DNA synthesis and genetic recombination processes, participating in the joining of DNA fragments. Beyond its role in DNA synthesis and recombination, T4 ligase is implicated in T4 DNA repair mechanisms, suggesting its involvement in maintaining the integrity of the viral genome. The multifunctional nature of T4 ligase
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underscores its significance in the intricate processes associated with T4 bacteriophage development and highlights its role in ensuring the fidelity and stability of the viral DNA.

Caution: Product has not been fully validated for medical applications. For research use only.

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