Catalog number RG-T4LIG

T4 DNA Ligase (400 cohesive-end units/µL)

Recombinant bacteriophage T4 DNA ligase, ATP-dependent, for sticky-end, blunt-end, and nick ligation in cloning and library construction. Supplied and titrated in cohesive-end units, not Weiss units.

Specification

Enzyme class	ATP-dependent DNA ligase (EC 6.5.1.1)
Concentration	400 cohesive-end units/µL
Unit definition	1 cohesive-end unit gives 50% ligation of HindIII-cut lambda DNA in 30 min at 16 °C in a 20 µL reaction. These are cohesive-end units, not Weiss units, so titrate against this definition rather than converting.
Activity assay	cohesive-end ligation of lambda/HindIII fragments, gel-based
Supplied buffer	10x T4 DNA ligase buffer with 10 mM ATP
Molecular weight	55.3 kDa (SDS-PAGE)
Thermostable	No
Applications	sticky-end ligation, blunt-end ligation, nick sealing, Golden Gate assembly, NGS adapter ligation, library construction
Storage	-20 °C

Ordering

Catalog no.	Pack	List price	Availability
RG-T4LIG-2500U	2,500 units	$12	Waitlist
RG-T4LIG-10KU	10,000 units	$32	Waitlist
RG-T4LIG-20KU	20,000 units	$54	Waitlist

Storage and shipping

Cold chain	2 to 8 °C on conditioned gel packs.
Hazard classification	None
Certificate of Analysis	Issued per lot and shipped with the product. Any lot can be retrieved at bramantebio.com/support/coa/

RG-T4LIG continued

Research use only

For research use only. Not for use in diagnostic or therapeutic procedures, and not for human or veterinary use. The purchaser is responsible for determining suitability for their application and for compliance with applicable biosafety and institutional requirements.