

Datasheet for ABIN7547098

LIG1 Protein (AA 1-919) (His tag)



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Overview

Quantity:	1 mg
Target:	LIG1
Protein Characteristics:	AA 1-919
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LIG1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant LIG1 Protein expressed in mammalian cells.
Sequence:	<p> MQRSIMSFFH PKKEGKAKKP EKEASNSSRE TEPPPKAALK EWNGVVSESD SPVKRPGRKA ARVLGSEGEE EDEALSPAKG QKPALDCSQV SPPRPATSPE NNASLSDTSP MDSSPSGIPK RRTARKQLPK RTIQEVLEEQ SEDEDREAKR KKEEEEEETP KESLTEAEVA TEKEGEDGDQ PTTPPKPLKT SKAETPTESV SEPEVATKQE LQEEEEQTKP PRRAPKTLSS FFTPRKPAVK KEVKEEEPGA PGKEGAAEGP LDPSGYNPAK NNYHPVEDAC WKPQKQVPYL AVARTFEKIE EVSARLRMVE TLSNLLRSV ALSPDLLPV LYLSLNHLGP PQQGLELGVG DGVLKAVAQ ATGRQLESVR AEEAEKGDVG LVAENSRSTQ RLMLPPPPLT ASGVFSKFRD IARLTGSAST AKKIDIKGL FVACRHSEAR FIARSLSGRL RLGLAEQSVL AALSQAVSLT PPGQEFPPAM VDAGKGKTAE ARKTWLEEQG MILKQTFCEV PDLRIIPVL LEHGLERLPE HCKLSPGIPL KPMLAHPTRG ISEVLKRFEA AFTCEYKYD GQRAQIHALE GGEVKIFSRN QEDNTGKYPD IISRIPIKL PSVTSFILD EAVAWDREKK QIQPFQVLT RKRKEVDASE IQVQVCLYAF DLIYLNAGESL VREPLSRRRQ LLRENFVETE GEFVFATSLD TKDIEQIAEF LEQSVKDSCE </p>

Product Details

GLMVKTLDVD ATYEIAKRSH NWLKLKKDYL DGVGDTLDLV VIGAYLGRGK RAGRYGGFLL
ASYDEDSEEL QAICKLGTGF SDEELEEHHQ SLKALVLPSP RPYVRIDGAV IPDHWLDPSA
VWEVKCADLS LSPIYPAARG LVDSKGISL RFPRFIRVRE DKQPEQATTS AQVACLYRKQ
SQIQNQGED SGSDPEDTY **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: LIG1

Alternative Name: LIG1 ([LIG1 Products](#))

Background: DNA ligase 1 (EC 6.5.1.1) (DNA ligase I) (Polydeoxyribonucleotide synthase [ATP] 1),FUNCTION: DNA ligase that seals nicks in double-stranded during DNA repair (PubMed:30395541). Also involved in DNA replication and DNA recombination. {ECO:0000269|PubMed:30395541}.

Molecular Weight: 101.7 kDa

Target Details

UniProt:	P18858
Pathways:	Telomere Maintenance , DNA Damage Repair , DNA Replication , Synthesis of DNA

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months