

Datasheet for ABIN7563546
LIG3 Protein (AA 1-1015) (His tag)



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Overview

Quantity:	1 mg
Target:	LIG3
Protein Characteristics:	AA 1-1015
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LIG3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Lig3 Protein expressed in mammalian cells.
Sequence:	<p>MTLAFKILFP RNLALGRKE LCLFPEQNRW AAISQFSQWS ETNLLGGCCL LQRRKPVLAL QRGHLRPRAT HLTFWPGSHV GLCTGPCAMA EQRFCVDYAK RGTAGCKKCK EKIVKGVCR GKVVPNPFSE SGGDMKEWYH IKCMFEKLER ARATTKKIED LTELEGWEEL EDNEKEQISQ HIADLSSKAA ATPKKKAAVQ AKLTTTGQVT SPVKGASFIT STNPRKFSGF SAAKPNNSEQ APSSPAPGTS LSASKCDPKH KDCLLREFRK LCAMVAENPS YNTKTQIIHD FLQKGSTGGF SDGFHGDVYL TVKLLLPGLV KSVYNLNDKQ IVKLFSTRFN CNPDDMARDL EQGDVSETIR IFFEQSKSFP PAAKSLTIQ EVDAFLLHLS KLTKEDEQQQ ALQDIASRCT ANDLKCIIRL IKHDLKMNSG AKHVLDALDP NAYEAFKASR NLQDVVERVL HNEQEVEKDP GRRRALRVQA SLMTPVQPML AEACKSIEYA MKKCPNGMFS EIKYDGERVQ VHKKGDFHSY FSRSLKPVLP HKVAHFKDYI PKAFPGGQSM ILDSEVLLID NNTGKPLPFG TLGVHKKAAF QDANVCLFVF DCIYFNDVSL MDRPLCERRK FLHDNMVEIR NRIMFSEMKG VTKASDLADM INRVIREGLE</p>

Product Details

GLVLKDVKGT YEPGKRHWLK VKKDYLNEGA MADTADLVVL GAFYGQGSKG GMMSIFLMGC
YDPDSQKWCT VTKCAGGHDD ATLARLQKEL VMVKISKDPS KIPSWLKINK IYYPDFIVPD
PKKAAVWEIT GAEFRSEAH TADGISIRFP RCTRIRDDKD WKSATNLPQL KELYQLSKDK
ADFAVVAGDE ASPTTGGSSG ENEGTagsAG PCKGPPSKSS ASAKTTEQKL NSPSSRGGIK
PIPKHSPMKP GEKLAVKSSP VKVGMKRKAT DETPCLKKVL LDVFTGVRLY LPPSTPDFKR
LKRYFVAFDG DLVQEFDMGS ATHVLGNREK NTDAQLVSSSE WIWACIRKRR LIAPC **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.**

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, Western Blot

Grade: custom-made

Target Details

Target: LIG3

Alternative Name: Lig3 ([LIG3 Products](#))

Background: DNA ligase 3 (EC 6.5.1.1) (DNA ligase III) (Polydeoxyribonucleotide synthase [ATP] 3),FUNCTION: The alpha isoform interacts with DNA-repair protein XRCC1 and can correct defective DNA strand-break repair and sister chromatid exchange following treatment with ionizing radiation and alkylating agents. The beta isoform does not interact with XRCC1 and

Target Details

may be specifically involved in the completion of homologous recombination events that occur during meiotic prophase.

Molecular Weight: 113.1 kDa

UniProt: [P97386](#)

Pathways: [DNA Damage Repair](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. 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