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Datasheet for ABIN3134693 LIG3 Protein (AA 1-1015) (His tag)

Image



Overview

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

Product Details

Sequence:	MTLAFKILFP RNLCALGRKE LCLFPEQNRW AAISQFSQWS ETNLLGGCCL LQRRKPVLAL
	QRGHLRPRAT HLTFWPGSHV GLCTGPCAMA EQRFCVDYAK RGTAGCKKCK EKIVKGVCRI
	GKVVPNPFSE SGGDMKEWYH IKCMFEKLER ARATTKKIED LTELEGWEEL EDNEKEQISQ
	HIADLSSKAA ATPKKKAAVQ AKLTTTGQVT SPVKGASFIT STNPRKFSGF SAAKPNNSEQ
	APSSPAPGTS LSASKCDPKH KDCLLREFRK LCAMVAENPS YNTKTQIIHD FLQKGSTGGF
	SDGFHGDVYL TVKLLLPGVI KSVYNLNDKQ IVKLFSRIFN CNPDDMARDL EQGDVSETIR
	IFFEQSKSFP PAAKSLLTIQ EVDAFLLHLS KLTKEDEQQQ ALQDIASRCT ANDLKCIIRL
	IKHDLKMNSG AKHVLDALDP NAYEAFKASR NLQDVVERVL HNEQEVEKDP GRRRALRVQA
	SLMTPVQPML AEACKSIEYA MKKCPNGMFS EIKYDGERVQ VHKKGDHFSY FSRSLKPVLP
	HKVAHFKDYI PKAFPGGQSM ILDSEVLLID NNTGKPLPFG TLGVHKKAAF QDANVCLFVF
	DCIYFNDVSL MDRPLCERRK FLHDNMVEIR NRIMFSEMKQ VTKASDLADM INRVIREGLE
	GLVLKDVKGT YEPGKRHWLK VKKDYLNEGA MADTADLVVL GAFYGQGSKG GMMSIFLMGC

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	YDPDSQKWCT VTKCAGGHDD ATLARLQKEL VMVKISKDPS KIPSWLKINK IYYPDFIVPD
	PKKAAVWEIT GAEFSRSEAH TADGISIRFP RCTRIRDDKD WKSATNLPQL KELYQLSKDK
	ADFAVVAGDE ASPTTGGSSG ENEGTAGSAG PCKGPPSKSS ASAKTTEQKL NSPSSRGGIK
	PIPKHSPMKP GEKLAVKSSP VKVGMKRKAT DETPCLKKVL LDVFTGVRLY LPPSTPDFKR
	LKRYFVAFDG DLVQEFDMGS ATHVLGNREK NTDAQLVSSE WIWACIRKRR LIAPC
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Lig3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
	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 will ensure that you receive a correctly folded protein.
	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.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its
	specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	 In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
	 Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

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Product Details	
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	
Target:	LIG3
Alternative Name:	Lig3 (LIG3 Products)
Background:	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 may be specifically involved in the completion of homologous recombination events that occur during meiotic prophase.
Molecular Weight:	114.0 kDa Including tag.
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 gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

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Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process