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# CLASP1 Protein (AA 1-1538) (Strep Tag)





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## Overview

Quantity:	1 mg
Target:	CLASP1
Protein Characteristics:	AA 1-1538
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CLASP1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

# **Product Details**

Sequence:

MEPRMESCLA QVLQKDVGKR LQVGQELIDY FSDKQKSADL EHDQTMLDKL VDGLATSWVN SSNYKVVLLG MDILSALVTR LQDRFKAQIG TVLPSLIDRL GDAKDSVREQ DQTLLLKIMD QAANPQYVWD RMLGGFKHKN FRTREGICLC LIATLNASGA QTLTLSKIVP HICNLLGDPN SQVRDAAINS LVEIYRHVGE RVRADLSKKG LPQSRLNVIF TKFDEVQKSG NMIQSANDKN FDDEDSVDGN RPSSASSTSS KAPPSSRRNV GMGTTRRLGS STLGSKSSAA KEGAGAVDEE DFIKAFDDVP VVQIYSSRDL EESINKIREI LSDDKHDWEQ RVNALKKIRS LLLAGAAEYD NFFQHLRLLD GAFKLSAKDL RSQVVREACI TLGHLSSVLG NKFDHGAEAI MPTIFNLIPN SAKIMATSGV VAVRLIIRHT HIPRLIPVIT SNCTSKSVAV RRRCFEFLDL LLQEWQTHSL ERHISVLAET IKKGIHDADS EARIEARKCY WGFHSHFSRE AEHLYHTLES SYQKALQSHL KNSDSIVSLP QSDRSSSSSQ ESLNRPLSAK RSPTGSTTSR ASTVSTKSVS TTGSLQRSRS DIDVNAAASA KSKVSSSSGT TPFSSAAALP PGSYASLGRI RTRRQSSGSA TNVASTPDNR GRSRAKVVSQ SQRSRSANPA GAGSRSSSPG KLLGSGYGGL TGGSSRGPPV TPSSEKRSKI

PRSQGCSRET SPNRIGLARS SRIPRPSMSQ GCSRDTSRES SRDTSPARGF PPLDRFGLGQ
PGRIPGSVNA MRVLSTSTDL EAAVADALKK PVRRRYEPYG MYSDDDANSD ASSVCSERSY
GSRNGGIPHY LRQTEDVAEV LNHCASSNWS ERKEGLLGLQ NLLKSQRTLS RVELKRLCEI
FTRMFADPHS KRVFSMFLET LVDFIIIHKD DLQDWLFVLL TQLLKKMGAD LLGSVQAKVQ
KALDVTRDSF PFDQQFNILM RFIVDQTQTP NLKVKVAILK YIESLARQMD PTDFVNSSET
RLAVSRIITW TTEPKSSDVR KAAQIVLISL FELNTPEFTM LLGALPKTFQ DGATKLLHNH
LKNSSNTSVG SPSNTIGRTP SRHTSSRTSP LTSPTNCSHG GLSPSRLWGW SADGLAKHPP
PFSQPNSIPT APSHKALRRS YSPSMLDYDT ENLNSEEIYS SLRGVTEAIE KFSFRSQEDL
NEPIKRDGKK ECDIVSRDGG AASPATEGRG GSEVEGGRTA LDNKTSLLNT QPPRAFPGPR
ARDYNPYPYS DAINTYDKTA LKEAVFDDDM EQLRDVPIDH SDLVADLLKE LSNHNERVEE
RKGALLELLK ITREDSLGVW EEHFKTILLL LLETLGDKDH SIRALALRVL REILRNQPAR
FKNYAELTIM KTLEAHKDSH KEVVRAAEEA ASTLASSIHP EQCIKVLCPI IQTADYPINL
AAIKMQTKVV ERIAKESLLQ LLVDIIPGLL QGYDNTESSV RKASVFCLVA IYSVIGEDLK
PHLAQLTGSK MKLLNLYIKR AQTTNSNSSS SSDVSTHS

Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

# Expression System:

 ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications. During lysate production, the cell wall and other cellular components that are not required for
protein production are removed, leaving only the protein production machinery and the
mitochondria to drive the reaction. During our lysate completion steps, the additional
components needed for protein production (amino acids, cofactors, etc.) are added to
produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

#### Concentration:

- 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.
- · We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

#### Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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.

# Purity:

>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

# Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

#### Grade:

Crystallography grade

# **Target Details**

Target:	CLASP1
Alternative Name:	CLASP1 (CLASP1 Products)
Background:	CLIP-associating protein 1 (Cytoplasmic linker-associated protein 1) (Multiple asters homolog
	1) (Protein Orbit homolog 1) (hOrbit1),FUNCTION: Microtubule plus-end tracking protein that
	promotes the stabilization of dynamic microtubules. Involved in the nucleation of
	noncentrosomal microtubules originating from the trans-Golgi network (TGN). Required for the
	polarization of the cytoplasmic microtubule arrays in migrating cells towards the leading edge
	of the cell. May act at the cell cortex to enhance the frequency of rescue of depolymerizing
	microtubules by attaching their plus-ends to cortical platforms composed of ERC1 and

rarget Details	
	PHLDB2. This cortical microtubule stabilizing activity is regulated at least in part by
	phosphatidylinositol 3-kinase signaling. Also performs a similar stabilizing function at the
	kinetochore which is essential for the bipolar alignment of chromosomes on the mitotic
	spindle. {ECO:0000269 PubMed:11290329, ECO:0000269 PubMed:12837247,
	ECO:0000269 PubMed:15631994, ECO:0000269 PubMed:16866869,
	ECO:0000269 PubMed:16914514, ECO:0000269 PubMed:17543864}.
Molecular Weight:	169.5 kDa
UniProt:	Q7Z460
Pathways:	Microtubule Dynamics, M Phase, Maintenance of Protein Location
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.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce
	even the most difficult-to-express proteins, including those that require post-translational modifications.
	During lysate production, the cell wall and other cellular components that are not required for
	protein production are removed, leaving only the protein production machinery and the
	mitochondria to drive the reaction. During our lysate completion steps, the additional
	components needed for protein production (amino acids, cofactors, etc.) are added to produce
	something that functions like a cell, but without the constraints of a living system - all that's
	needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request,
	please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.

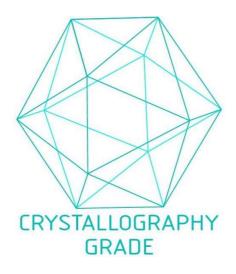
-80 °C

Storage:

# Handling

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