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XIAP Protein (AA 1-497) (His tag)



Image



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Overview

Quantity:	1 mg
Target:	XIAP
Protein Characteristics:	AA 1-497
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This XIAP protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

MTFNSFEGSK TCVPADINKE EEFVEEFNRL KTFANFPSGS PVSASTLARA GFLYTGEGDT VRCFSCHAAV DRWQYGDSAV GRHRKVSPNC RFINGFYLEN SATQSTNSGI QNGQYKVENY LGSRDHFALD RPSETHADYL LRTGQVVDIS DTIYPRNPAM YSEEARLKSF QNWPDYAHLT PRELASAGLY YTGIGDQVQC FCCGGKLKNW EPCDRAWSEH RRHFPNCFFV LGRNLNIRSE SDAVSSDRNF PNSTNLPRNP SMADYEARIF TFGTWIYSVN KEQLARAGFY ALGEGDKVKC FHCGGGLTDW KPSEDPWEQH AKWYPGCKYL LEQKGQEYIN NIHLTHSLEE CLVRTTEKTP SLTRRIDDTI FQNPMVQEAI RMGFSFKDIK KIMEEKIQIS GSNYKSLEVL VADLVNAQKD SMQDESSQTS LQKEISTEEQ LRRLQEEKLC KICMDRNIAI VFVPCGHLVT CKQCAEAVDK CPMCYTVITF KQKIFMS

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.
- Human XIAP 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:

- 1. 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.
- 2. 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:
 >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:	XIAP
Alternative Name:	XIAP (XIAP Products)
Background:	Multi-functional protein which regulates not only caspases and apoptosis, but also modulates
	inflammatory signaling and immunity, copper homeostasis, mitogenic kinase signaling, cell
	proliferation, as well as cell invasion and metastasis. Acts as a direct caspase inhibitor. Directly
	bind to the active site pocket of CASP3 and CASP7 and obstructs substrate entry. Inactivates
	CASP9 by keeping it in a monomeric, inactive state. Acts as an E3 ubiquitin-protein ligase
	regulating NF-kappa-B signaling and the target proteins for its E3 ubiquitin-protein ligase
	activity include: RIPK1, CASP3, CASP7, CASP8, CASP9, MAP3K2/MEKK2, DIABLO/SMAC,
	AIFM1, CCS and BIRC5/survivin. Ubiquitinion of CCS leads to enhancement of its chaperone
	activity toward its physiologic target, SOD1, rather than proteasomal degradation. Ubiquitinion
	of MAP3K2/MEKK2 and AIFM1 does not lead to proteasomal degradation. Plays a role in
	copper homeostasis by ubiquitinationg COMMD1 and promoting its proteasomal degradation.
	Can also function as E3 ubiquitin-protein ligase of the NEDD8 conjugation pathway, targeting
	effector caspases for neddylation and inactivation. Regulates the BMP signaling pathway and
	the SMAD and MAP3K7/TAK1 dependent pathways leading to NF-kappa-B and JNK activation
	Acts as an important regulator of innate immune signaling via regulation of Nodlike receptors
	(NLRs). Protects cells from spontaneous formation of the ripoptosome, a large multi-protein
	complex that has the capability to kill cancer cells in a caspase-dependent and caspase-
	independent manner. Suppresses ripoptosome formation by ubiquitinating RIPK1 and CASP8.
	Acts as a positive regulator of Wnt signaling and ubiquitinates TLE1, TLE2, TLE3, TLE4 and AE
	Ubiquitination of TLE3 results in inhibition of its interaction with TCF7L2/TCF4 thereby allowin
	efficient recruitment and binding of the transcriptional coactivator beta-catenin to
	TCF7L2/TCF4 that is required to initiate a Wnt-specific transcriptional program.
	{ECO:0000269 PubMed:11447297, ECO:0000269 PubMed:12121969,
	ECO:0000269 PubMed:14645242, ECO:0000269 PubMed:14685266,
	ECO:0000269 PubMed:17560374, ECO:0000269 PubMed:17967870,
	ECO:0000269 PubMed:19473982, ECO:0000269 PubMed:20154138,
	ECO:0000269 PubMed:21145488, ECO:0000269 PubMed:22103349,
	ECO:0000269 PubMed:22304967, ECO:0000269 PubMed:9230442}.
Molecular Weight:	57.6 kDa Including tag.
UniProt:	P98170
Pathways:	Apoptosis, Caspase Cascade in Apoptosis, Transition Metal Ion Homeostasis

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

Images

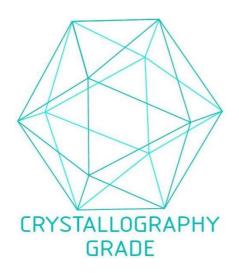


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process