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Spartan Protein (AA 1-489) (His tag)



Image



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Overview

Quantity:	1 mg
Target:	Spartan (C1orf124)
Protein Characteristics:	AA 1-489
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Spartan protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

MDDDLMLALR LQEEWNLQEA ERDHAQESLS LVDASWELVD PTPDLQALFV QFNDQFFWGQ LEAVEVKWSV RMTLCAGICS YEGKGGMCSI RLSEPLLKLR PRKDLVETLL HEMIHAYLFV TNNDKDREGH GPEFCKHMHR INSLTGANIT VYHTFHDEVD EYRRHWWRCN GPCQHRPPYY GYVKRATNRE PSAHDYWWAE HQKTCGGTYI KIKEPENYSK KGKGKAKLGK EPVLAAENKD KPNRGEAQLV IPFSGKGYVL GETSNLPSPG KLITSHAINK TQDLLNQNHS ANAVRPNSKI KVKFEQNGSS KNSHLVSPAV SNSHQNVLSN YFPRVSFANQ KAFRGVNGSP RISVTVGNIP KNSVSSSSQR RVSSSKISLR NSSKVTESAS VMPSQDVSGS EDTFPNKRPR LEDKTVFDNF FIKKEQIKSS GNDPKYSTTT AQNSSSSSSQ SKMVNCPVCQ NEVLESQINE HLDWCLEGDS IKVKSEESL

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 SPRTN 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:	Spartan (C1orf124)
Alternative Name:	SPRTN (C1orf124 Products)
Background:	Regulator of UV-induced DNA damage response: acts as a 'reader' of ubiquitinated PCNA that
	enhances RAD18-mediated PCNA ubiquitination and translesion DNA synthesis (TLS).
	Recruited to sites of UV damage and interacts with ubiquitinated PCNA and RAD18, the E3
	ubiquitin ligase that monoubiquitinates PCNA. Facilitates chromatin association of RAD18 and
	is required for efficient PCNA monoubiquitination, promoting a feed-forward loop to enhance
	PCNA ubiquitination and translesion DNA synthesis. Acts as a regulator of TLS by recruiting
	VCP/p97 to sites of DNA damage, possibly leading to extraction of DNA polymerase eta (POLH
	by VCP/p97 to prevent excessive translesion DNA synthesis and limit the incidence of
	mutations induced by DNA damage. {ECO:0000269 PubMed:22681887,
	ECO:0000269 PubMed:22894931, ECO:0000269 PubMed:22902628,
	ECO:0000269 PubMed:22987070, ECO:0000269 PubMed:23042605,
	ECO:0000269 PubMed:23042607}.
Molecular Weight:	56.1 kDa Including tag.
UniProt:	Q9H040
UniProt: Application Details	Q9H040
	Q9H040 In addition to the applications listed above we expect the protein to work for functional studies
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Handling

Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

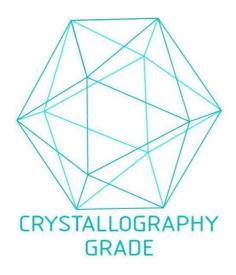


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process