



[Go to Product page](#)

Datasheet for ABIN3094680

## Periostin Protein (POSTN) (AA 22-836) (His tag)

### Overview

Quantity:	1 mg
Target:	Periostin (POSTN)
Protein Characteristics:	AA 22-836
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Periostin protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

### Product Details

Sequence:	NNHYDKILAH SRIRGRDQGP NVCALQQILG TKKKYFSTCK NWKYSICGQ KTTVLYECCP GYMRMEGMKG CPAVLPIDHV YGTLGIVGAT TTQRYSDASK LREEIEGKGS FTYFAPSNEA WDNLDSDIRR GLESNVVEL LNALHSHMIN KRMLTKDLKN GMIIPSMYNN LGLFINHYPN GVVTVNCARI IHGNQIATNG VVHVIDRVLQ QIGTSIQDFI EAEDDLSSFR AAAITSDILE ALGRDGHFTL FAPTNEAFEK LPRGVLERIM GDKVASEALM KYHILNTLQC SESIMGGAVF ETLEGNTIEI GCDGDSITVN GIKMVNKKDI VTNNGVIHLI DQVLIPDSAK QVIELAGKQQ TTFTDLVAQL GLASALRPDG EYTLAPVNN AFSDDTLSMD QRLLKLILQN HILKVKVGLN ELYNGQILET IGGKQLRVFV YRTAVCIENS CMEKGSKQGR NGAIHIFREI IKPAEKSLE KLKQDKRFST FLSLLEAADL KELLTQPGDW TLFVPTNDAF KGMTSEEKEI LIRDKNALQN IILYHLTPGV FIGKGFEPGV TNILKTTQGS KIFLKEVNDT LLVNELKSKE SDIMTTNGVI HVVDKLLYP A DTPVGNLQLL EILNKLIKYI QIKFVRG STF KEIPVTVYTT KIITKVVEPK IKVIEGSLQP IIKTEGPTLT KVKIEGEPEF RLIKEGETIT EVIHGEPIIK KYTKIIDGVP VEITEKETRE ERIITGPEIK
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YTRISTGGGE TEETLKLLQ EEVTKVTKFI EGGDGHLEFEEIKRLLQGD TPVRKLQANK  
KVQGSRRRLR EGRSQ

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human POSTN 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 receipt 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.

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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.

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Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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Sterility:

0.22 µm filtered

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Endotoxin Level:

Protein is endotoxin free.

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## Product Details

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Grade: Crystallography grade

## Target Details

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Target: Periostin (POSTN)

Alternative Name: POSTN ([POSTN Products](#))

Background: Induces cell attachment and spreading and plays a role in cell adhesion (PubMed:12235007). Enhances incorporation of BMP1 in the fibronectin matrix of connective tissues, and subsequent proteolytic activation of lysyl oxidase LOX (By similarity). {ECO:0000250|UniProtKB:Q62009, ECO:0000269|PubMed:12235007}.

Molecular Weight: 91.9 kDa Including tag.

UniProt: [Q15063](#)

## Application Details

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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: 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

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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)