

Datasheet for ABIN3092730

**FYN Protein (AA 2-537) (His tag)****1** Image[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	FYN
Protein Characteristics:	AA 2-537
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FYN protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

## Product Details

Sequence:	<p>GCVQCKDKEA TKLTEERDGS LNQSSGYRYG TDPTQHYPS FGVTSIPNYN NFHAAGGQGL TVFGGVNSSS HTGTLRTRGG TGVTLFVALY DYEARTEDDL SFHKGEKFQI LNSSEGDWWE ARSLTTGETG YIPSNYVAPV DSIQAEWYF GKLGRKDAER QLLSFGNPRG TFLIRESETT KGAYSLSIRD WDDMKGDHVK HYKIRKLDNG GYYITTRAQF ETLQQLVQHY SERAAGLCCR LVVPCHKGMP RLTDLSVGTK DVWEIPRESL QLIKRLGNGQ FGEVWMGTWN GNTKVAIKTL KPGTMSPESE LEEAQIMKKL KHDKLVLQLYA VVSEPIYIV TEYMNKGSLL DFLKDGEGRA LKLPLNLDMA AQVAAGMAYI ERMNYIHRDL RSANILVGNG LICKIADFGL ARLIEDNEYT ARQGAKFPIK WTAPEAALYG RFTIKSDVWS FGILLTELVT KGRVPYPGMN NREVLEQVER GYRMPCPQDC PISLHELMIH CWKKDPEERP TFEYLQSFLE DYFTATEPQY QPGENL</p> <p><b>Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.</b></p>
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## Product Details

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- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
  - Human FYN 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.

- 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:	FYN
Alternative Name:	FYN ( <a href="#">FYN Products</a> )
Background:	<p>Non-receptor tyrosine-protein kinase that plays a role in many biological processes including regulation of cell growth and survival, cell adhesion, integrin-mediated signaling, cytoskeletal remodeling, cell motility, immune response and axon guidance. Inactive FYN is phosphorylated on its C-terminal tail within the catalytic domain. Following activation by PKA, the protein subsequently associates with PTK2/FAK1, allowing PTK2/FAK1 phosphorylation, activation and targeting to focal adhesions. Involved in the regulation of cell adhesion and motility through phosphorylation of CTNNB1 (beta-catenin) and CTNND1 (delta-catenin). Regulates cytoskeletal remodeling by phosphorylating several proteins including the actin regulator WAS and the microtubule-associated proteins MAP2 and MAPT. Promotes cell survival by phosphorylating AGAP2/PIKE-A and preventing its apoptotic cleavage. Participates in signal transduction pathways that regulate the integrity of the glomerular slit diaphragm (an essential part of the glomerular filter of the kidney) by phosphorylating several slit diaphragm components including NPHS1, KIRREL and TRPC6. Plays a role in neural processes by phosphorylating DPYSL2, a multifunctional adapter protein within the central nervous system, ARHGAP32, a regulator for Rho family GTPases implicated in various neural functions, and SNCA, a small pre-synaptic protein. Participates in the downstream signaling pathways that lead to T-cell differentiation and proliferation following T-cell receptor (TCR) stimulation. Also participates in negative feedback regulation of TCR signaling through phosphorylation of PAG1, thereby promoting interaction between PAG1 and CSK and recruitment of CSK to lipid rafts. CSK maintains LCK and FYN in an inactive form. Promotes CD28-induced phosphorylation of VAV1.</p> <p>{ECO:0000269 PubMed:11005864, ECO:0000269 PubMed:11162638, ECO:0000269 PubMed:11536198, ECO:0000269 PubMed:12788081, ECO:0000269 PubMed:14707117, ECO:0000269 PubMed:14761972, ECO:0000269 PubMed:15536091, ECO:0000269 PubMed:15557120, ECO:0000269 PubMed:16387660, ECO:0000269 PubMed:16841086, ECO:0000269 PubMed:17194753, ECO:0000269 PubMed:18056706, ECO:0000269 PubMed:18258597, ECO:0000269 PubMed:19179337, ECO:0000269 PubMed:19652227, ECO:0000269 PubMed:20100835, ECO:0000269 PubMed:22080863, ECO:0000269 PubMed:7568038, ECO:0000269 PubMed:7822789}.</p>
Molecular Weight:	61.6 kDa Including tag.
UniProt:	<a href="#">P06241</a>

## Target Details

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Pathways: [JAK-STAT Signaling](#), [TCR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Feeding Behaviour](#), [CXCR4-mediated Signaling Events](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Activated T Cell Proliferation](#), [Thromboxane A2 Receptor Signaling](#)

## 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)



**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process