

Datasheet for ABIN3092578

FANCI Protein (AA 1-1328) (His tag)[Go to Product page](#)**1** Image

Overview

| | |
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| Quantity: | 1 mg |
| Target: | FANCI |
| Protein Characteristics: | AA 1-1328 |
| Origin: | Human |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This FANCI protein is labelled with His tag. |
| Application: | ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS) |

Product Details

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| Sequence: | MDQKILSLAA EKTADKLQEF LQTLREGDLT NLLQNQAVKG KVAGALLRAI FKGSPCSEEA GTLRRRKIYT CCIQLVESGD LQKEIASEII GLLMLEAHHF PGPLLVELAN EFISAVREGS LVNGKSLELL PIILTALATK KENLAYGKGV LSGEECKKQL INTLCSGRWD QQYVIQLTSM FKDVPLTAAE VEFVVEKALS MFSKMNLQEI PPLVYQLLVL SSKGSRKSVL EGIIAFFSAL DKQHNEEQSG DELLDVVTVP SGELRHVEGT IILHIVFAIK LDYELGRELK KHLKVGQQGD SNNNLSPFSI ALLLSVTRIQ RFQDQVLDLL KTSVVKSFKD LQLLQGSKFL QNLVPHRSYV STMILEVVKN SVHSDHVTQ GLVELGFILM DSYGPKKVLD GKTITSPSL SRMPNQHACK LGANILLET F KIHEMIRQEI LEQVLNRVVT RASSPISHFL DLLSNIVMYA PLVLQSCSSK VTEAFDYSF LPLQTVQRLL KAVQPLLKVS MSMRDCLILV LRKAMFANQL DARKSAVAGF LLLLKNFKVL GSLSSSQCSQ SLSVSQVHVD VSHYNSVAN ETFLEIMDS LRRCLSQQAD VRLMLYEGFY DVLRRNSQLA NSVMQTLLSQ LKQFYEPKPD LLPPLKLEAC ILTQGDKISL QEPLDYLLCC IQHCLAWYKN TVIPLQQGEE EEEEEAFYE DLDDILESIT NRMKSELED |
|-----------|--|

FELDKSADFS QSTSIGIKNN ICAFLVMGVC EVLIEYNFSI SSFSKNRFED ILSLFMCYKK
LSDILNEKAG KAKTKMANKT SDSLLSMKFV SLLTALFRD SIQSHQESLS VLRSSNEFMR
YAVNVALQKV QQLKETGHVS GPDGQNPEKI FQNLCDITRV LLWRYTSIPT SVEESGKKEK
GKSISLLCLE GLQKIFSAVQ QFYQPKIQF LRALDVTDK GEEREDADVS VTQRTAFQIR
QFQRSLNLL SSQEEDFNSK EALLVTVLT SLSKLEPSS PQFVQMLSWT SKICKENSRE
DALFCKSLMN LLFSLHVSYSK SPVILLRDL S QDIHGLGDI DQDVEVEKTN HFAIVNLRTA
APTVCLLVLS QAEKVLEEVD WLITKLKGQV SQETLSEEAS SQATLPNQPV EKAIIMQLGT
LLTFFHELVQ TALPSGSCVD TLLKDLCKMY TTLTALVRY LQVCQSSGGI PKNMEKLVKL
SGSHLTPLCY SFISYVQNKS KSLNYTGEKK EKPAAVATAM ARVLRETKPI PNLIFAIEQY
EKFLIHLSKK SKVNLMQHMK LSTSRDFKIK GNILDMVLRE DGEDENEEGT ASEHGGQNKE
PAKKKRKK

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 FANCI 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:

Product Details

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: FANCI

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

Background: Plays an essential role in the repair of DNA double-strand breaks by homologous recombination and in the repair of interstrand DNA cross-links (ICLs) by promoting FANCD2 monoubiquitination by FANCL and participating in recruitment to DNA repair sites. Required for maintenance of chromosomal stability. Specifically binds branched DNA: binds both single-stranded DNA (ssDNA) and double-stranded DNA (dsDNA). Participates in S phase and G2 phase checkpoint activation upon DNA damage. {ECO:0000269|PubMed:17412408, ECO:0000269|PubMed:17452773, ECO:0000269|PubMed:17460694, ECO:0000269|PubMed:19111657}.

Molecular Weight: 150.3 kDa Including tag.

UniProt: [Q9NVI1](#)

Pathways: [DNA Damage Repair](#)

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: 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

Application Details

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) |

Images



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