



Datasheet for ABIN3093201

JAG1 Protein (AA 34-1067) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	JAG1
Protein Characteristics:	AA 34-1067
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This JAG1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence: QFELEILSMQ NVNGELQNGN CCGGARNPGD RKCTRDECDT YFKVCLKEYQ SRVTAGGPCS
 FGSGSTPVIG GNTFNLKASR GNDRNRIVLP FSFAWPRSYP LLVEAWDSSN DTVQPDSIIE
 KASHSGMINP SRQWQTLKQN TGVAHFYEQI RVTCDYDYYG FGCNKFCRPR DDFFGHYACD
 QNGNKTCMEG WMGPECNRAI CRQGCSPKHG SCKLPGDCRC QYGWQGLYCD KCIPHPGCVH
 GICNEPWQCL CETNWGGQLC DKDLNYCGTH QPCLNGGTCS NTGPDKYQCS CPEGYSGPNC
 EIAEHACLSD PCHNRGSCKE TSLGFCECS PGWTGPTCST NIDDCSPNNC SHGGTCQDLV
 NGFKCVCPPQ WTGKTCQLDA NECEAKPCVN AKSCKNLIAS YYCDCLPGWM GQNCNDININD
 CLGQCQNDAS CRDLVNGYRC ICPPGYAGDH CERDIDECAS NPCLNGGHQC NEINRFQCLC
 PTGFSGNLCQ LDIDYCEPNP CQNGAQCYNR ASDYFCKCPE DYEGKNCSHL KDHCRTTPE
 VIDSCTVAMA SNTDPEGVRY ISSNVCQPHG KCKSQSGGKF TCDCNKGFTG TYCHENINDC
 ESNPCRNGGT CIDGVNSYKC ICSDGWEGAY CETNINDCSQ NPCHNGGTCT DLVNDFYCDC
 KNGWKGTCH SRDSQCDEAT CNNGGTCYDE GDAFKCMCPG GWEGTTCNIA RNSSCLPNPC

HNGGTCVVNG ESFTCVCKEG WEGPICAQNT NDCSPHPCYN SGTCDVDGDNW YRCECAPGFA
GPDCRININE CQSSPCAFGA TCVDEINGYR CVCPPGHSGA KCQEVSGRPC ITMGSVIPDG
AKWDDDCNTC QCLNGRIACS KVWCGPRPCL LHKGHSECPS GQSCIPILDD QCFVHPCTGV
GECRSSSLQP VKTKCTSDSY YQDNCANITF TFNKEMMSPG LTTEHICSEL RNLNILKNVS
AEYSIYACE PSPSANNEIH VAISAEDIRD DGNPIKEITD KIIDLVSKRK GNSSLIAAVA EVRVQRRLK
NRTD

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 JAG1 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.

Product Details

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:	JAG1
Alternative Name:	JAG1 (JAG1 Products)
Background:	Ligand for multiple Notch receptors and involved in the mediation of Notch signaling. May be involved in cell-fate decisions during hematopoiesis. Seems to be involved in early and late stages of mammalian cardiovascular development. Inhibits myoblast differentiation (By similarity). Enhances fibroblast growth factor-induced angiogenesis (in vitro). {ECO:0000250, ECO:0000269 PubMed:18660822, ECO:0000269 PubMed:9462510}.
Molecular Weight:	113.8 kDa Including tag.
UniProt:	P78504
Pathways:	Notch Signaling , Stem Cell Maintenance

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 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

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