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NOTCH2 Protein (AA 1699-2470) (His tag)



Image



Overview

Quantity:	1 mg
Target:	NOTCH2
Protein Characteristics:	AA 1699-2470
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NOTCH2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

MAKRKQAWLP LAAGRFTLRR DSSNHKRREP VGQDAVGLKN LSVQVSEANL IGSGTSEHWV
DDEGPQPKKA KAEDEALLSE DDPIDRRPWT QQHLEAADIS HTPSLALTPP QAEQEVDVLD
VNVRGPDGCT PLMLASLRGG SSDLSDEDED AEDSSANIIT DLVYQGASLQ AQTDRTGEMA
LHLAARYSRA DAAKRLLDAG ADRNAQDNMG RCPLHAAVAG DAQGVFQILI RNRVTDLDAR
MNDGTTPLIL AARLAVEGMV AELINCQADV NAVDDHGKSA LHWAAAVNNV EATLLLLKNG
ANRDMQDNKE ETPLFLAARE GSYEAAKILL DHFANRDITD HMDRLPRDVA RDRMHHDIVR
LLDEYNVTPS PPGTVLTSAL SPVLCGPNRS FLSLKHTPMG KKARRPNTKS TMPTSLPNLA
KEAKDAKGSR RKKCLNEKVQ LSESSVTLSP VDSLESPHTY VSDATSSPMI TSPGILQASP
TPLLAAAAPA APVHTQHALS FSNLHDMQPL APGASTVLPS VSQLLSHHHI APPGSSSAGS
LGRLHPVPVP ADWMNRVEMN ETQYSEMFGM VLAPAEGAHP GIAAPQSRPP EGKHMSTQRE
PLPPIVTFQL IPKRSIAQAA GAPQTQSSCP PAVAGPLPSM YQIPEMPRLP SVAFPPTMMP
QQEGQVAQTI VPTYHPFPAS VGKYPTPPSQ HSYASSNAAE RTPSHGGHLQ GEHPYLTPSP

ESPDQWSSSS PHSASDWSDV TTSPTPGGGG GGQRGPGTHM SEPPHSNMQV YA

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.
- Mouse Notch2 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.
- 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.

Target Details Target: NOTCH2 Alternative Name: Notch2 (NOTCH2 Products) Functions as a receptor for membrane-bound ligands Jagged1, Jagged2 and Delta1 to regula cell-fate determination. Upon ligand activation through the released notch intracellular domain (NICD) it forms a transcriptional activator complex with RBPJ/RBPSUH and activates genes on the enhancer of split locus. Affects the implementation of differentiation, proliferation and apoptotic programs (By similarity). May play an essential role in postimplantation development probably in some aspect of cell specification and/or differentiation. In collaboration with RELX/p65 enhances NFATc1 promoter activity and positively regulates RANKL-induced osteoclast differentiation. Positively regulates self-renewal of liver cancer cells (By similarity). (ECO.0000250 UniProtKBCQ04721, ECO.0000269]PubMed:10393120, ECO.0000250 UniProtKBCQ04721, ECO.0000269]PubMed:10393120, ECO.0000269 PubMed:18710934). Wolecular Weight: 83.6 kDa Including tag. JaniProt: 035516 Pathways: Notch Signaling, Stem Cell Maintenance Application Details 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 gurant though. Comment: Protein has not been tested for activity yet. 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. For Research Use only	Product Details	
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	Handling	
3uffer: 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.	Format:	Liquid
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Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

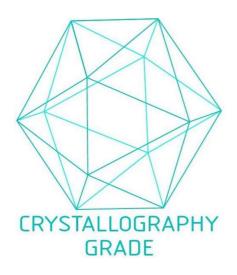


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process