

Datasheet for ABIN3093347

## KIDINS220 Protein (AA 707-1771) (His tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	KIDINS220
Protein Characteristics:	AA 707-1771
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KIDINS220 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence: NCRTWWQVLD SLLNSQRKRL HNAASKLHKL KSEGFMKVLK CEVELMARMA KTIDSFTQNQ  
TRLVVIIDGL DACEQDKVLQ MLDTVRVLFS KGPFIAIFAS DPHIIKAIN QNLNSVLRDS  
NINGHDYMRN IVHLPVFLNS RGLSNARKFL VTSATNGDVP CSDTTGIQED ADRRVSQNSL  
GEMTKLGSKT ALNRRDITYRR RQMQRITRQ MSFDLTKLLV TEDWFSDISP QTMRRLLNIV  
SVTGRLLRAN QISFNWDRLA SWINLTEQWP YRTSWLILYL EETEGIPDQM TLKTIYERIS  
KNIPTTKDVE PLLEIDGDIR NFEVFLSSRT PVLVARDVKV FLPCTVNLDL KLREIADVR  
AAREQISIGG LAYPPLPLHE GPPRAPSGYS QPPSVCSSTS FNGPFAGGVV SPQPHSSYYS  
GMTGPQHPLY NRPFFAPYLY TPRYPGGSQ HLISRPSVKT SLPRDQNNGL EVIKEDAAEG  
LSSPTDSSRG SGPAPGPVVL LNSLNVDAVC EKLKQIEGLD QSMLPQYCTT IKKANINGRV  
LAQCNIDELK KEMNMNFGDW HLFIRSTVLEM RNAESHVVE DPRFLSESSS GPAPHGEPAR  
RASHNELPHT ELSSQTPYTL NFSFEELNTL GLDEGAPRHS NLSWQSQTRR TPSLSSLNSQ  
DSSIEISKLT DKVQAEYRDA YREYIAQMSQ LEGGPGSTTI SGRSSPHSTY YMGQSSSGGS

IHSNLEQEKG KDSEPKPDDG RKSFLMKRGD VIDYSSSGVS TNDASPLDPI TEEDEKSDQS  
GSKLLPGKKS SERSSLFQTD LKLKGSGLRY QKLPSDEDES GTEESDNTPL LKDDKDRKAE  
GKVERVPKSP EHS AEPIRTF IKAKEYLSDA LLDKKDSSDS GVRSESSPN HSLHNEVADD  
SQLEKANLIE LEDDSHSGKR GIPHSLSGLQ DPIIARMSIC SEDKKSPSEC SLIASSPEEN  
WPACQKAYNL N RTPSTVTLN NNSAPANRAN QNFDEMEGIR ETSQVILRPS SSPNPTTIQN  
ENLKSMTHKR SQRSSYTRLS KDPPELHAAA SSESTGFGEE RESIL

**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 KIDINS220 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.

## Product Details

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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

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Target:	KIDINS220
Alternative Name:	KIDINS220 ( <a href="#">KIDINS220 Products</a> )
Background:	Promotes a prolonged MAP-kinase signaling by neurotrophins through activation of a Rap1-dependent mechanism. Provides a docking site for the CRKL-C3G complex, resulting in Rap1-dependent sustained ERK activation. May play an important role in regulating postsynaptic signal transduction through the syntrophin-mediated localization of receptor tyrosine kinases such as EPHA4. In cooperation with SNTA1 can enhance EPHA4-induced JAK/STAT activation. Plays a role in nerve growth factor (NGF)-induced recruitment of RAPGEF2 to late endosomes and neurite outgrowth. May play a role in neurotrophin- and ephrin-mediated neuronal outgrowth and in axon guidance during neural development and in neuronal regeneration (By similarity). Modulates stress-induced apoptosis of melanoma cells via regulation of the MEK/ERK signaling pathway. {ECO:0000250, ECO:0000269 PubMed:18089783}.
Molecular Weight:	119.6 kDa Including tag.
UniProt:	<a href="#">Q9ULH0</a>

## 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)

## Images

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