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KIDINS220 Protein (AA 1-499) (His tag)



Image



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Overview

Quantity:	1 mg
Target:	KIDINS220
Protein Characteristics:	AA 1-499
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:

MSVLISQSVI NYVEEENIPA LKALLEKCKD VDERNECGQT PLMIAAEQGN LEIVKELIKN
GANCNLEDLD NWTALISASK EGHVHIVEEL LKCGVNLEHR DMGGWTALMW ACYKGRTDVV
ELLLSHGANP SVTGLYSVYP IIWAAGRGHA DIVHLLLQNG AKVNCSDKYG TTPLVWAARK
GHLECVKHLL AMGADVDQEG ANSMTALIVA VKGGYTQSVK EILKRNPNVN LTDKDGNTAL
MIASKEGHTE IVQDLLDAGT YVNIPDRSGD TVLIGAVRGG HVEIVRALLQ KYADIDIRGQ
DNKTALYWAV EKGNATMVRD ILQCNPDTEI CTKDGETPLI KATKMRNIEV VELLLDKGAK
VSAVDKKGDT PLHIAIRGRS RKLAELLLRN PKDGRLLYRP NKAGETPYNI DCSHQKSILT
QIFGARHLSP TETDGDMLGY DLYSSALADI LSEPTMQPPI CVGLYAQWGS GKSFLLKKLE
DEMKTFAGQQ IEPLFQFSW

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 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 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 protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

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.

 Grade:
 Crystallography grade

Target Details

Target:	KIDINS220
Alternative Name:	KIDINS220 (KIDINS220 Products)
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:	55.8 kDa Including tag.
UniProt:	Q9ULH0
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 gurantee
	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 Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Expiry Date:

Unlimited (if stored properly)

Images

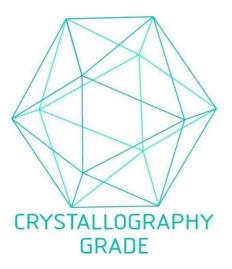


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process