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Datasheet for ABIN3132520 Src Protein (AA 2-541) (His tag)



Overview

Quantity:	1 mg
Target:	Src
Protein Characteristics:	AA 2-541
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Src protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS), Crystallization (Crys)

Product Details

	special request, please contact us.
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	QVERGYRMPC PPECPESLHD LMCQCWRKEP EERPTFEYLQ AFLEDYFTST EPQYQPGENL
	NEYTARQGAK FPIKWTAPEA ALYGRFTIKS DVWSFGILLT ELTTKGRVPY PGMVNREVLD
	TGKYLRLPQL VDMSAQIASG MAYVERMNYV HRDLRAANIL VGENLVCKVA DFGLARLIED
	IKTLKPGTMS PEAFLQEAQV MKKLRHEKLV QLYAVVSEEP IYIVTEYMNK GSLLDFLKGE
	ADGLCHRLTT VCPTSKPQTQ GLAKDAWEIP RESLRLEVKL GQGCFGEVWM GTWNGTTRVA
	VRESETTKGA YCLSVSDFDN AKGLNVKHYK IRKLDSGGFY ITSRTQFNSL QQLVAYYSKH
	REGDWWLAHS LSTGQTGYIP SNYVAPSDSI QAEEWYFGKI TRRESERLLL NAENPRGTFL
	LFGGFNSSDT VTSPQRAGPL AGGVTTFVAL YDYESRTETD LSFKKGERLQ IVNNTRKVDV
Sequence:	GSNKSKPKDA SQRRRSLEPS ENVHGAGGAF PASQTPSKPA SADGHRGPSA AFVPPAAEPK

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Product Details	
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Src 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:
	 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

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Target Details

Target:	Src
Alternative Name:	Src (Src Products)
Target Type:	Viral Protein
Background:	Non-receptor protein tyrosine kinase which is activated following engagement of many
	different classes of cellular receptors including immune response receptors, integrins and othe
	adhesion receptors, receptor protein tyrosine kinases, G protein-coupled receptors as well as
	cytokine receptors. Participates in signaling pathways that control a diverse spectrum of
	biological activities including gene transcription, immune response, cell adhesion, cell cycle
	progression, apoptosis, migration, and transformation. Due to functional redundancy between
	members of the SRC kinase family, identification of the specific role of each SRC kinase is very
	difficult. SRC appears to be one of the primary kinases activated following engagement of
	receptors and plays a role in the activation of other protein tyrosine kinase (PTK) families.
	Receptor clustering or dimerization leads to recruitment of SRC to the receptor complexes
	where it phosphorylates the tyrosine residues within the receptor cytoplasmic domains. Plays
	an important role in the regulation of cytoskeletal organization through phosphorylation of
	specific substrates such as AFAP1. Phosphorylation of AFAP1 allows the SRC SH2 domain to
	bind AFAP1 and to localize to actin filaments. Cytoskeletal reorganization is also controlled
	through the phosphorylation of cortactin (CTTN). When cells adhere via focal adhesions to the
	extracellular matrix, signals are transmitted by integrins into the cell resulting in tyrosine
	phosphorylation of a number of focal adhesion proteins, including PTK2/FAK1 and paxillin
	(PXN). In addition to phosphorylating focal adhesion proteins, SRC is also active at the sites of
	cell-cell contact adherens junctions and phosphorylates substrates such as beta-catenin
	(CTNNB1), delta-catenin (CTNND1), and plakoglobin (JUP). Another type of cell-cell junction, th
	gap junction, is also a target for SRC, which phosphorylates connexin-43 (GJA1). SRC is
	implicated in regulation of pre-mRNA-processing and phosphorylates RNA-binding proteins
	such as KHDRBS1. Also plays a role in PDGF-mediated tyrosine phosphorylation of both STAT
	and STAT3, leading to increased DNA binding activity of these transcription factors. Involved ir
	the RAS pathway through phosphorylation of RASA1 and RASGRF1. Plays a role in EGF-
	mediated calcium-activated chloride channel activation. Required for epidermal growth factor
	receptor (EGFR) internalization through phosphorylation of clathrin heavy chain (CLTC and
	CLTCL1) at 'Tyr-1477'. Involved in beta-arrestin (ARRB1 and ARRB2) desensitization through
	phosphorylation and activation of ADRBK1, leading to beta-arrestin phosphorylation and
	internalization. Has a critical role in the stimulation of the CDK20/MAPK3 mitogen-activated
	protein kinase cascade by epidermal growth factor. Might be involved not only in mediating the
	transduction of mitogenic signals at the level of the plasma membrane but also in controlling

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progression through the cell cycle via interaction with regulatory proteins in the nucleus. Plays an important role in osteoclastic bone resorption in conjunction with PTK2B/PYK2. Both the formation of a SRC-PTK2B/PYK2 complex and SRC kinase activity are necessary for this
formation of a SRC-PTK2B/PYK2 complex and SRC kinase activity are necessary for this
termenter of a encer integer integer and one kinase activity are necessary for tills
function. Recruited to activated integrins by PTK2B/PYK2, thereby phosphorylating CBL, which
in turn induces the activation and recruitment of phosphatidylinositol 3-kinase to the cell
membrane in a signaling pathway that is critical for osteoclast function. Promotes energy
production in osteoclasts by activating mitochondrial cytochrome C oxidase. Phosphorylates
DDR2 on tyrosine residues, thereby promoting its subsequent autophosphorylation.
Phosphorylates RUNX3 and COX2 on tyrosine residues, TNK2 on 'Tyr-284' and CBL on 'Tyr-731'.
Enhances DDX58/RIG-I-elicited antiviral signaling. Phosphorylates PDPK1 at 'Tyr-9', 'Tyr-373'
and 'Tyr-376'. Phosphorylates BCAR1 at 'Tyr-132'. Phosphorylates CBLC at multiple tyrosine
residues, phosphorylation at 'Tyr-341' activates CBLC E3 activity. Required for podosome
formation (PubMed:21525037). {ECO:0000269 PubMed:12615910,
ECO:0000269 PubMed:14739300, ECO:0000269 PubMed:21525037,
ECO:0000269 PubMed:8641341, ECO:0000269 PubMed:9344858}.
61.5 kDa Including tag.
P05480
JAK-STAT Signaling, Neurotrophin Signaling Pathway, Intracellular Steroid Hormone Receptor
Signaling Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling, Cellular
Response to Molecule of Bacterial Origin, Cell-Cell Junction Organization, Regulation of
Carbohydrate Metabolic Process, Autophagy, CXCR4-mediated Signaling Events, Signaling
Events mediated by VEGFR1 and VEGFR2, Smooth Muscle Cell Migration, Negative Regulation
of intrinsic apoptotic Signaling, Platelet-derived growth Factor Receptor Signaling,
Thromboxane A2 Receptor Signaling, Signaling of Hepatocyte Growth Factor Receptor, VEGF
Signaling
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.
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

options with you in detail to assure that you receive your protein of interest.

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Application Details

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)