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Datasheet for ABIN3095666 Src Protein (AA 2-536) (His tag)

Image



Overview

Quantity:	1 mg
Target:	Src
Protein Characteristics:	AA 2-536
Origin:	Human
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
	YRMPCPPECP ESLHDLMCQC WRKEPEERPT FEYLQAFLED YFTSTEPQYQ PGENL
	RQGAKFPIKW TAPEAALYGR FTIKSDVWSF GILLTELTTK GRVPYPGMVN REVLDQVERG
	RLPQLVDMAA QIASGMAYVE RMNYVHRDLR AANILVGENL VCKVADFGLA RLIEDNEYTA
	PGTMSPEAFL QEAQVMKKLR HEKLVQLYAV VSEEPIYIVT EYMSKGSLLD FLKGETGKYL
	HRLTTVCPTS KPQTQGLAKD AWEIPRESLR LEVKLGQGCF GEVWMGTWNG TTRVAIKTLK
	TTKGAYCLSV SDFDNAKGLN VKHYKIRKLD SGGFYITSRT QFNSLQQLVA YYSKHADGLC
	WLAHSLSTGQ TGYIPSNYVA PSDSIQAEEW YFGKITRRES ERLLLNAENP RGTFLVRESE
	KLFGGFNSSD TVTSPQRAGP LAGGVTTFVA LYDYESRTET DLSFKKGERL QIVNNTEGDW
Sequence:	GSNKSKPKDA SQRRRSLEPA ENVHGAGGGA FPASQTPSKP ASADGHRGPS AAFAPAAAEP

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 Characteristics: Made in Germany - from design to production - by highly experienced protein e Human SRC Protein (raised in Insect Cells) purified by multi-step, protein-spec 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 experts in the lab will ensure that you receive a correctly folded protein. 	•
experts in the lab will ensure that you receive a correctly folded protein.	
	r order. Our
The big advantage of ordering our made-to-order proteins in comparison to order	ring custom
made proteins from other companies is that there is no financial obligation in cas	se the protein
cannot be expressed or purified.	
In the unlikely event that the protein cannot be expressed or purified we do not cl	harge anything
(other companies might charge you for any performed steps in the expression pr	rocess 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 ex	xperienced
protein experts will do everything to make sure that you receive the protein you o	ordered.
The concentration of our recombinant proteins is measured using the absorbanc	ce at 280nm.
The protein's absorbance will be measured in several dilutions and is measured a specific reference buffer.	against its
The concentration of the protein is calculated using its specific absorption coeffi	cient. We use
the Expasy's protparam tool to determine the absorption coefficient of each prote	ein.
Purification: Two step purification of proteins expressed in baculovirus infected SF9 insect ce	ells:
 In a first purification step, the protein is purified from the cleared cell lysate usi different His-tag capture materials: high yield, EDTA resistant, or DTT resistant fractions are analyzed by SDS-PAGE. 	0
2. Protein containing fractions of the best purification are subjected to second put through size exclusion chromatography. Eluate fractions are analyzed by SDS- Western blot.	
Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Westerr	n 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
	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-128'. Phosphorylates CBLC at multiple tyrosine
	residues, phosphorylation at 'Tyr-341' activates CBLC E3 activity. Required for podosome
	formation (By similarity). {ECO:0000250 UniProtKB:P05480, ECO:0000269 PubMed:11389730,
	ECO:0000269 PubMed:12615910, ECO:0000269 PubMed:14585963,
	ECO:0000269 PubMed:16186108, ECO:0000269 PubMed:18586953,
	EC0:0000269 PubMed:19419966, EC0:0000269 PubMed:20100835,
	EC0:0000269 PubMed:20525694, EC0:0000269 PubMed:21309750,
	ECO:0000269 PubMed:21411625, ECO:0000269 PubMed:22710723,
	EC0:0000269 PubMed:2498394, EC0:0000269 PubMed:3093483,
	EC0:0000269 PubMed:7853507, EC0:0000269 PubMed:8755529,
	ECO:0000269 PubMed:8759729}.
Molecular Weight:	60.7 kDa Including tag.
UniProt:	P12931
Pathways:	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

Application Details

Application Notes:

In addition to the applications listed above we expect the protein to work for functional studies

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Application Details	
	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

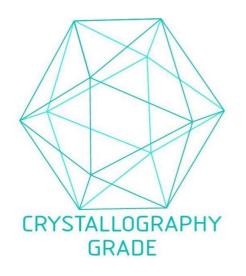


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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