Datasheet for ABIN3094529 PDGFRA Protein (AA 24-528) (His tag)

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Overview

Quantity:	1 mg
Target:	PDGFRA
Protein Characteristics:	AA 24-528
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDGFRA protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	QLSLPSILPN ENEKVVQLNS SFSLRCFGES EVSWQYPMSE EESSDVEIRN EENNSGLFVT
	VLEVSSASAA HTGLYTCYYN HTQTEENELE GRHIYIYVPD PDVAFVPLGM TDYLVIVEDD
	DSAIIPCRTT DPETPVTLHN SEGVVPASYD SRQGFNGTFT VGPYICEATV KGKKFQTIPF
	NVYALKATSE LDLEMEALKT VYKSGETIVV TCAVFNNEVV DLQWTYPGEV KGKGITMLEE
	IKVPSIKLVY TLTVPEATVK DSGDYECAAR QATREVKEMK KVTISVHEKG FIEIKPTFSQ
	LEAVNLHEVK HFVVEVRAYP PPRISWLKNN LTLIENLTEI TTDVEKIQEI RYRSKLKLIR
	AKEEDSGHYT IVAQNEDAVK SYTFELLTQV PSSILDLVDD HHGSTGGQTV RCTAEGTPLP
	DIEWMICKDI KKCNNETSWT ILANNVSNII TEIHSRDRST VEGRVTFAKV EETIAVRCLA
	KNLLGAENRE LKLVAPTLRS ELTVA
	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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Product Details	
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Human PDGFRA 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.
	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.
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:	PDGFRA
Alternative Name:	PDGFRA (PDGFRA Products)
Background:	Tyrosine-protein kinase that acts as a cell-surface receptor for PDGFA, PDGFB and PDGFC and
	plays an essential role in the regulation of embryonic development, cell proliferation, survival
	and chemotaxis. Depending on the context, promotes or inhibits cell proliferation and cell
	migration. Plays an important role in the differentiation of bone marrow-derived mesenchymal
	stem cells. Required for normal skeleton development and cephalic closure during embryonic
	development. Required for normal development of the mucosa lining the gastrointestinal tract,
	and for recruitment of mesenchymal cells and normal development of intestinal villi. Plays a
	role in cell migration and chemotaxis in wound healing. Plays a role in platelet activation,
	secretion of agonists from platelet granules, and in thrombin-induced platelet aggregation.
	Binding of its cognate ligands - homodimeric PDGFA, homodimeric PDGFB, heterodimers
	formed by PDGFA and PDGFB or homodimeric PDGFC -leads to the activation of several
	signaling cascades, the response depends on the nature of the bound ligand and is modulated
	by the formation of heterodimers between PDGFRA and PDGFRB. Phosphorylates PIK3R1,
	PLCG1, and PTPN11. Activation of PLCG1 leads to the production of the cellular signaling
	molecules diacylglycerol and inositol 1,4,5-trisphosphate, mobilization of cytosolic Ca(2+) and
	the activation of protein kinase C. Phosphorylates PIK3R1, the regulatory subunit of
	phosphatidylinositol 3-kinase, and thereby mediates activation of the AKT1 signaling pathway.
	Mediates activation of HRAS and of the MAP kinases MAPK1/ERK2 and/or MAPK3/ERK1.
	Promotes activation of STAT family members STAT1, STAT3 and STAT5A and/or STAT5B.
	Receptor signaling is down-regulated by protein phosphatases that dephosphorylate the
	receptor and its down-stream effectors, and by rapid internalization of the activated receptor.
	{ECO:0000269 PubMed:10734113, ECO:0000269 PubMed:10947961,
	EC0:0000269 PubMed:11297552, EC0:0000269 PubMed:12522257,
	ECO:0000269 PubMed:1646396, ECO:0000269 PubMed:1709159,
	EC0:0000269 PubMed:17141222, EC0:0000269 PubMed:20972453,
	EC0:0000269 PubMed:21224473, EC0:0000269 PubMed:21596750,
	ECO:0000269 PubMed:2554309, ECO:0000269 PubMed:8188664,
	ECO:0000269 PubMed:8760137, ECO:0000269 PubMed:8943348}.
Molecular Weight:	57.5 kDa Including tag.
UniProt:	P16234
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin

Signaling Pathway, Platelet-derived growth Factor Receptor Signaling

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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)	