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Datasheet for ABIN3133611 PKC delta Protein (AA 1-327) (His tag)







Overview

Quantity:	1 mg
Target:	PKC delta (PKCd)
Protein Characteristics:	AA 1-327
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PKC delta protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MAPFLRISFN SYELGSLQVE DEASQPFCAV KMKEALSTER GKTLVQKKPT MYPEWKTTFD
	AHIYEGRVIQ IVLMRAAEDP VSEVTVGVSV LAERCKKNNG KAEFWLDLQP QAKVLMCVQY
	FLEDGDCKQS MRSEEEAKFP TMNRRGAIKQ AKIHYIKNHE FIATFFGQPT FCSVCKEFVW
	GLNKQGYKCR QCNAAIHKKC IDKIIGRCTG TATNSRDTIF QKERFNIDMP HRFKVYNYMS
	PTFCDHCGSL LWGLVKQGLK CEDCGMNVHH KCREKVANLC GINQKLLAEA LNQVTQRSSR
	KLDTTESVGI YQGFEKKPEV SGSDILD
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.
Characteristics:	

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Product Details	
	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:
	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.
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:	PKC delta (PKCd)
Alternative Name:	Prkcd (PKCd Products)
Background:	Calcium-independent, phospholipid- and diacylglycerol (DAG)-dependent serine/threonine-

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	similarity). {ECO:0000250 UniProtKB:Q05655, ECO:0000269 PubMed:11976686, ECO:0000269 PubMed:11976687, ECO:0000269 PubMed:18025218, ECO:0000269 PubMed:19917613, ECO:0000269 PubMed:9705322}.
Molecular Weight:	38.2 kDa Including tag.
UniProt:	P28867
Pathways:	Interferon-gamma Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Thyroid Hormone Synthesis, Regulation of Actin Filament Polymerization, Carbohydrate Homeostasis, Myometrial Relaxation and Contraction, M Phase, G-protein mediated Events, Dicarboxylic Acid Transport, Positive Regulation of Response to DNA Damage Stimulus, Interaction of EGFR with phospholipase C-gamma, Thromboxane A2 Receptor Signaling, Lipid Metabolism

Application Details

Target 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:	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 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)

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

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