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Datasheet for ABIN3094537 PDE12 Protein (AA 17-609) (His tag)

Image



Overview

Quantity:	1 mg
Target:	PDE12
Protein Characteristics:	AA 17-609
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDE12 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys), ELISA

Product Details

Sequence:	AVEKLSRAEA GSQTAAGAME RAVVRCVPSE PKLSLSFALA DGSHKNMQRD QSEPLGRVLS
	RIATNALKGH AKAAAAKKSR KSRPNASGGA ACSGPGPEPA VFCEPVVKLY YREEAVAEDV
	LNVDAWQDGA VLQIGDVKYK VERNPPAFTE LQLPRYIMAG FPVCPKLSLE FGDPASSLFR
	WYKEAKPGAA EPEVGVPSSL SPSSPSSSWT ETDVEERVYT PSNADIGLRL KLHCTPGDGQ
	RFGHSRELES VCVVEAGPGT CTFDHRHLYT KKVTEDALIR TVSYNILADT YAQTEFSRTV
	LYPYCAPYAL ELDYRQNLIQ KELTGYNADV ICLQEVDRAV FSDSLVPALE AFGLEGVFRI
	KQHEGLATFY RKSKFSLLSQ HDISFYEALE SDPLHKELLE KLVLYPSAQE KVLQRSSVLQ
	VSVLQSTKDS SKRICVANTH LYWHPKGGYI RLIQMAVALA HIRHVSCDLY PGIPVIFCGD
	FNSTPSTGMY HFVINGSIPE DHEDWASNGE EERCNMSLTH FFKLKSACGE PAYTNYVGGF
	HGCLDYIFID LNALEVEQVI PLPSHEEVTT HQALPSVSHP SDHIALVCDL KWK
	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 PDE12 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:	PDE12
Alternative Name:	PDE12 (PDE12 Products)
Background:	Enzyme that cleaves 2',5'-phosphodiester bond linking adenosines of the 5'-triphosphorylated
	oligoadenylates, triphosphorylated oligoadenylates referred as 2-5A modulates the 2-5A
	system. This enzyme degraded triphosphorylated 2-5A to produce AMP and ATP. Also cleaves
	3',5'-phosphodiester bond of oligoadenylates. Plays a role as a negative regulator of the The 2-
	5A system that is one of the major pathways for antiviral and antitumor functions induced by
	interferons (IFNs). Suppression of this enzyme induces reduction of viral replication in Hela
	cells, thus counteracting the antiviral pathway probably by inhibiting the 2-5A system.
	{EC0:0000269 PubMed:15231837, EC0:0000269 PubMed:21245038,
	ECO:0000269 PubMed:21666256, ECO:0000269 PubMed:22285541}.
Molecular Weight:	66.5 kDa Including tag.
UniProt:	Q6L8Q7
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)

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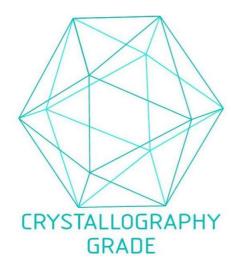


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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