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Datasheet for ABIN3137517 ENTPD5 Protein (AA 25-427) (His tag)



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Quantity:	
	1 mg
Target:	ENTPD5
Protein Characteristics:	AA 25-427
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ENTPD5 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)
Product Details	
Sequence:	QQTWFEGVFL SSMCPINVSA GTFYGIMFDA GSTGTRIHVY TFVQKTAGQL PFLEGEIFDS
	VKPGLSAFVD QPKQGAETVQ ELLEVAKDSI PRSHWERTPV VLKATAGLRL LPEQKAQALL
	LEVEEIFKNS PFLVPDGSVS IMDGSYEGIL AWVTVNFLTG QLHGRGQETV GTLDLGGAST
	QITFLPQFEK TLEQTPRGYL TSFEMFNSTF KLYTHSYLGF GLKAARLATL GALEAKGTDG
	HTFRSACLPR WLEAEWIFGG VKYQYGGNQE GEMGFEPCYA EVLRVVQGKL HQPEEVRGSA
	FYAFSYYYDR AADTHLIDYE KGGVLKVEDF ERKAREVCDN LGSFSSGSPF LCMDLTYITA
	LLKDGFGFAD GTLLQLTKKV NNIETGWALG ATFHLLQSLG ITS
	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.

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	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:
	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:	ENTPD5
Alternative Name:	Entpd5 (ENTPD5 Products)

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Target Details

Background:	Uridine diphosphatase (UDPase) that promotes protein N-glycosylation and ATP level
	regulation. UDP hydrolysis promotes protein N-glycosylation and folding in the endoplasmic
	reticulum, as well as elevated ATP consumption in the cytosol via an ATP hydrolysis cycle.
	Together with CMPK1 and AK1, constitutes an ATP hydrolysis cycle that converts ATP to AMP
	and results in a compensatory increase in aerobic glycolysis. The nucleotide hydrolyzing
	preference is GDP > IDP > UDP, but not any other nucleoside di-, mono- or triphosphates, nor
	thiamine pyrophosphate. Plays a key role in the AKT1-PTEN signaling pathway by promoting
	glycolysis in proliferating cells in response to phosphoinositide 3-kinase (PI3K) signaling.
	{EC0:0000269 PubMed:10369669, EC0:0000269 PubMed:21074248}.
Molecular Weight:	45.4 kDa Including tag.
UniProt:	Q9WUZ9

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:	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)