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## Datasheet for ABIN3137506 AKT3 Protein (AA 2-479) (His tag)

Image



#### Overview

Quantity:	1 mg
Target:	AKT3
Protein Characteristics:	AA 2-479
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AKT3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

#### Product Details

Sequence:	SDVTIVKEGW VQKRGEYIKN WRPRYFLLKT DGSFIGYKEK PQDVDLPYPL NNFSVAKCQL
	MKTERPKPNT FIIRCLQWTT VIERTFHVDT PEEREEWTEA IQAVADRLQR QEEERMNCSP
	TSQIDNIGEE EMDASTTHHK RKTMNDFDYL KLLGKGTFGK VILVREKASG KYYAMKILKK
	EVIIAKDEVA HTLTESRVLK NTRHPFLTSL KYSFQTKDRL CFVMEYVNGG ELFFHLSRER
	VFSEDRTRFY GAEIVSALDY LHSGKIVYRD LKLENLMLDK DGHIKITDFG LCKEGITDAA
	TMKTFCGTPE YLAPEVLEDN DYGRAVDWWG LGVVMYEMMC GRLPFYNQDH EKLFELILME
	DIKFPRTLSS DAKSLLSGLL IKDPNKRLGG GPDDAKEIMR HSFFSGVNWQ DVYDKKLVPP
	FKPQVTSETD TRYFDEEFTA QTITITPPEK YDDDGMDGMD NERRPHFPQF SYSASGRE
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Akt3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to</li> </ul>

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Target Details	
Grade:	Crystallography grade
Endotoxin Level:	Protein is endotoxin free.
Sterility:	0.22 µm filtered
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
	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.
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 blic ten content protein is purified. EDTA president on DTT president. Flucture
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	specific reference buffer.
	The protein's absorbance will be measured in several dilutions and is measured against its
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	protein experts will do everything to make sure that you receive the protein you ordered.
	folded protein. With no financial risk on your end you can rest assured that our experienced
	When you order this made-to-order protein you will only pay upon receival of the correctly
	experiments or purification optimization).
	(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
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	cannot be expressed or purified.
	made proteins from other companies is that there is no financial obligation in case the protein
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	experts in the lab will ensure that you receive a correctly folded protein.
	This protein is a made to order protein and will be made for the first time for your order. Our
	State-of-the-art algorithm used for plasmid design (Gene synthesis).
	ensure crystallization grade.

**Product Details** 

 Target:
 AKT3

 Alternative Name:
 Akt3 (AKT3 Products)

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### Target Details

Background:	AKT3 is one of 3 closely related serine/threonine-protein kinases (AKT1, AKT2 and AKT3) called
	the AKT kinase, and which regulate many processes including metabolism, proliferation, cell
	survival, growth and angiogenesis. This is mediated through serine and/or threonine
	phosphorylation of a range of downstream substrates. Over 100 substrate candidates have
	been reported so far, but for most of them, no isoform specificity has been reported. AKT3 is
	the least studied AKT isoform. It plays an important role in brain development and is crucial for
	the viability of malignant glioma cells. AKT3 isoform may also be the key molecule in up-
	regulation and down-regulation of MMP13 via IL13. Required for the coordination of
	mitochondrial biogenesis with growth factor-induced increases in cellular energy demands.
	Down-regulation by RNA interference reduces the expression of the phosphorylated form of
	BAD, resulting in the induction of caspase-dependent apoptosis.
	{ECO:0000269 PubMed:15713641, ECO:0000269 PubMed:21159799}.
Molecular Weight:	56.5 kDa Including tag.
UniProt:	Q9WUA6
Pathways:	PI3K-Akt Signaling, RTK Signaling, TLR Signaling, Hepatitis C, VEGF Signaling
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	

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:	-S0 °C
Storage Comment:	Store at -80°C.

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Handling
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Expiry Date:

Unlimited (if stored properly)

#### Images



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

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