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Datasheet for ABIN3135191 TAO Kinase 1 (TAOK1) (AA 1-1001) protein (His tag)



Overview

Image

Quantity:	1 mg
Target:	TAO Kinase 1 (TAOK1)
Protein Characteristics:	AA 1-1001
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MPSTNRAGSL KDPEIAELFF KEDPEKLFTD LREIGHGSFG AVYFARDVRT NEVVAIKKMS
	YSGKQSTEKW QDIIKEVKFL QRIKHPNSIE YKGCYLREHT AWLVMEYCLG SASDLLEVHK
	KPLQEVEIAA ITHGALQGLA YLHSHTMIHR DIKAGNILLT EPGQVKLADF GSASMASPAN
	SFVGTPYWMA PEVILAMDEG QYDGKVDVWS LGITCIELAE RKPPLFNMNA MSALYHIAQN
	ESPTLQSNEW SDYFRNFVDS CLQKIPQDRP TSEELLKHMF VLRERPETVL IDLIQRTKDA
	VRELDNLQYR KMKKLLFQEA HNGPAVEAQE EEEEQDHGVG RTGTVNSVGS NQSIPSMSIS
	ASSQSSSVNS LPDASDDKSE LDMMEGDHTV MSNSSVIHLK PEEENYQEEG DPRTRASDPQ
	SPPQVSRHKS HYRNREHFAT IRTASLVTRQ MQEHEQDSEL REQMSGYKRM RRQHQKQLMT
	LENKLKAEMD EHRLRLDKDL ETQRNNFAAE MEKLIKKHQA AMEKEAKVMA NEEKKFQQHI
	QAQQKKELNS FLESQKREYK LRKEQLKEEL NENQSTPKKE KQEWLSKQKE NIQHFQAEEE
	ANLLRRQRQY LELECRRFKR RMLLGRHNLE QDLVREELNK RQTQKDLEHA MLLRQHESMQ
	ELEFRHLNTI QKMRCELIRL QHQTELTNQL EYNKRREREL RRKHVMEVRQ QPKSLKSKEL

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	QIKKQFQDTC KIQTRQYKAL RNHLLETTPK SEHKAVLKRL KEEQTRKLAI LAEQYDHSIN
	EMLSTQALRL DEAQEAECQV LKMQLQQELE LLNAYQSKIK MQAEAQHDRE LRELEQRVSL
	RRALLEQKIE EEMLALQNER TERIRSLLER QAREIEAFDS ESMRLGFSNM VLSNLSPEAF
	SHSYPGASSW SHNPTGGPGP HWGHPMGGTP QAWGHPMQGG PQPWGHPSGP
	MQGVPRGSSM GVRNSPQALR RTASGGRTEQ GMSRSTSVTS QISNGSHMSY T
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts.
Characteristics.	 Mouse Taok1 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

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Durity:	NEW as determined by SDS DACE. Size Evolution Chromotography and Western Plat
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:	TAO Kinase 1 (TAOK1)
Alternative Name:	Taok1 (TAOK1 Products)
Background:	Serine/threonine-protein kinase involved in various processes such as p38/MAPK14 stress- activated MAPK cascade, DNA damage response and regulation of cytoskeleton stability. Phosphorylates MAP2K3, MAP2K6 and MARK2. Acts as an activator of the p38/MAPK14 stress-activated MAPK cascade by mediating phosphorylation and subsequent activation of the upstream MAP2K3 and MAP2K6 kinases. Involved in G-protein coupled receptor signaling to p38/MAPK14. In response to DNA damage, involved in the G2/M transition DNA damage checkpoint by activating the p38/MAPK14 stress-activated MAPK cascade, probably by mediating phosphorylation of MAP2K3 and MAP2K6. Acts as a regulator of cytoskeleton stability by phosphorylating 'Thr-208' of MARK2, leading to activate MARK2 kinase activity and subsequent phosphorylation and detachment of MAPT/TAU from microtubules. Also acts as a regulator of apoptosis: regulates apoptotic morphological changes, including cell contraction, membrane blebbing and apoptotic bodies formation via activation of the MAPK8/JNK cascade (By similarity). {EC0:0000250}.
Molecular Weight:	117.0 kDa Including tag.
UniProt:	Q5F2E8
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.

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Application Details

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)

Images



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