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Datasheet for ABIN3132312 SP1 Protein (AA 2-784) (His tag)

Image



Overview

Quantity:	1 mg
Target:	SP1
Protein Characteristics:	AA 2-784
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SP1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	SDQDHSMDEV TAVVKIEKDV GGNNGGSGNG GGAAFSQTRS SSTGSSSSSG GGGGQESQPS
	PLALLAATCS RIESPNENSN NSQGPSQSGG TGELDLTATQ LSQGANGWQI ISSSSGATPT
	SKEQSGNSTN GSNGSESSKN RTVSGGQYVV AATPNLQNQQ VLTGLPGVMP NIQYQVIPQF
	QTVDGQQLQF AATGAQVQQD GSGQIQIIPG ANQQIIPNRG SGGNIIAAMP NLLQQAVPLQ
	GLANNVLSGQ TQYVTNVPVA LNGNITLLPV NSVSAATLTP SSQAGTISSS GSQESSSQPV
	TSGTAISSAS LVSSQASSSS FFTNANSYST TTTTSNMGIM NFTSSGSSGT SSQGQTPQRV
	GGLQGSDSLN IQQNQTSGGS LQGSQQKEGE QSQQTQQQQI LIQPQLVQGG QALQALQAAP
	LSGQTFTTQA ISQETLQNLQ LQAVQNSGPI IIRTPTVGPN GQVSWQTLQL QNLQVQNPQA
	QTITLAPMQG VSLGQTSSSN TTLTPIASAA SIPAGTVTVN AAQLSSMPGL QTINLSALGT
	SGIQVHQLPG LPLAIANTPG DHGTQLGLHG SGGDGIHDET AGGEGENSSD LQPQAGRRTR
	REACTCPYCK DSEGRASGDP GKKKQHICHI QGCGKVYGKT SHLRAHLRWH TGERPFMCNW
	SYCGKRFTRS DELQRHKRTH TGEKKFACPE CPKRFMRSDH LSKHIKTHQN KKGGPGVALS

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 Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us. Made in Germany - from design to production - by highly experienced protein experts. Mouse Sp1 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
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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.
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.
>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
0.22 µm filtered
Protein is endotoxin free.

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Product Details

Grade:

Crystallography grade

Target Details

Target:	SP1
Alternative Name:	Sp1 (SP1 Products)
Background:	Transcription factor that can activate or repress transcription in response to physiological and
	pathological stimuli. Binds with high affinity to GC-rich motifs and regulates the expression of a
	large number of genes involved in a variety of processes such as cell growth, apoptosis,
	differentiation and immune responses. Highly regulated by post-translational modifications
	(phosphorylations, sumoylation, proteolytic cleavage, glycosylation and acetylation). Binds also
	the PDGFR-alpha G-box promoter. May have a role in modulating the cellular response to DNA
	damage. Implicated in chromatin remodeling. Plays a role in the recruitment of
	SMARCA4/BRG1 on the c-FOS promoter Plays an essential role in the regulation of FE65 gene
	expression (By similarity). Positively regulates the transcription of the core clock component
	ARNTL/BMAL1. {ECO:0000250, ECO:0000269 PubMed:24030830}.
Molecular Weight:	81.6 kDa Including tag.
UniProt:	089090
Pathways:	Regulation of Lipid Metabolism by PPARalpha, Myometrial Relaxation and Contraction
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.
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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