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Datasheet for ABIN3128039 NKX6-1 Protein (AA 1-365) (His tag)

Image



Overview

Quantity:	1 mg
Target:	NKX6-1
Protein Characteristics:	AA 1-365
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NKX6-1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	MLAVGAMEGP RQSAFLLSSP PLAALHSMAE MKTPLYPAAY PPLPTGPPSS SSSSSSSSSP
	SPPLGSHNPG GLKPPAAGGL SSLGSPPQQL SAATPHGIND ILSRPSMPVA SGAALPSASP
	SGSSSSSSSS ASATSASAAA AAAAAAAAA ASSPAGLLAG LPRFSSLSPP PPPPGLYFSP
	SAAAVAAVGR YPKPLAELPG RTPIFWPGVM QSPPWRDARL ACTPHQGSIL LDKDGKRKHT
	RPTFSGQQIF ALEKTFEQTK YLAGPERARL AYSLGMTESQ VKVWFQNRRT KWRKKHAAEM
	ATAKKKQDSE TERLKGTSEN EEDDDDYNKP LDPNSDDEKI TQLLKKHKSS GGSLLLHASE AEGSS
	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.
	Mouse Nkx6-1 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).

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Product Details	
	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 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:	NKX6-1
Alternative Name:	Nkx6-1 (NKX6-1 Products)
Background:	Transcription factor which binds to specific A/T-rich DNA sequences in the promoter regions of

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Target Details

	a number of genes. Involved in transcriptional regulation in islet beta cells. Binds to the insulin
	promoter and is involved in regulation of the insulin gene. Together with NKX2-2 and IRX3 acts
	to restrict the generation of motor neurons to the appropriate region of the neural tube. Belongs
	to the class II proteins of neuronal progenitor factors, which are induced by SHH signals.
	{ECO:0000269 PubMed:10830170}.
Molecular Weight:	38.7 kDa Including tag.
UniProt:	Q99MA9
Pathways:	Dopaminergic Neurogenesis, Positive Regulation of Peptide Hormone Secretion
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)

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

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