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Datasheet for ABIN3131116 Spexin Protein (SPX) (AA 27-116) (His tag)



Image

Overview	
Quantity:	1 mg
Target:	Spexin (SPX)
Protein Characteristics:	AA 27-116
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Spexin protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)
Product Details	
Sequence:	APQRLSEKRN WTPQAMLYLK GAQGRRFLSD QSRRKELADR PPPERRNPDL ELLTLPEAAA
	LFLASLEKSQ KDEGGNFDKS ELLEDRLFNW
	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 Spx Protein (raised in E. Coli) 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

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Product Details	
	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 bacterial culture:
	 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.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade

Target Details

Target:	Spexin (SPX)
Alternative Name:	Spx (SPX Products)
Background:	Plays a role as a central modulator of cardiovascular and renal function and nociception. Plays
	also a role in energy metabolism and storage. Inhibits adrenocortical cell proliferation with
	minor stimulation on corticosteroid release (By similarity). {ECO:0000250}., Spexin-1:
	Intracerebroventricular administration of the peptide induces an increase in arterial blood
	pressure, a decrease in both heart rate and renal excretion and delayed natriuresis.

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	Intraventricular administration of the peptide induces antinociceptive activity. Also induces
	contraction of muscarinic-like stomach smooth muscles. Acts as a ligand for galanin receptors
	GALR2 and GALR3 (By similarity). Intraperitoneal administration of the peptide induces a
	reduction in food consumption and body weight. Inhibits long chain fatty acid uptake into
	adipocytes (PubMed:24550067). {ECO:0000250, ECO:0000269 PubMed:24550067}., Spexin-2:
	Intracerebroventricular administration of the peptide induces a decrease in heart rate, but no
	change in arterial pressure, and an increase in urine flow rate. Intraventricular administration of
	the peptide induces antinociceptive activity (By similarity). {ECO:0000250}.
Molecular Weight:	11.4 kDa Including tag.
UniProt:	D3Z752
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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