

Datasheet for ABIN3135432
FOXN1 Protein (AA 1-648) (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	FOXN1
Protein Characteristics:	AA 1-648
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FOXN1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MVSLPPQSD VTLPGSTRLE GEPQGDLMQA PGLPDSPAPQ NKHANFSCSS FVPDGPPERT PSLPPHSPSI ASPDPEIQG HCTAGPGPGS FRLSPSEKYP GFGFEEGPAG SPGRFLKGNH MPFHPYKRHF HEDIFSEAQT AMALDGHSFK TQGALEAFEE IPVDMGDAA FLPSFPAAEW CNKLPYPSQE HNQILQGSEV KVKPQALDSG PGMICYQPPL QHMYCSSQPA FHQYSPGGGS YPVPYLGSPH YPYQRIAPQA NAEHQPLFP KPIYSYSILI FMALKNSKTG SLPVSEIYNF MTEHFPYFKT APDGWKNVSR HNLSLNKCFE KVENKSGSSS RKGCLWALNP SKIDKMQEEL QKWKRKDPIA VRKSMAKPEE LDSLIGDKRE KLGSPLLGCP PPGLAGPGPI RPMAPSAGLS QPLHPMHPAP GPMPGKNPLQ DLLGGHAPSC YGQTYPHLSP SLAPSGHQQP LFPQPDGHLE LQAQPGTPQD SPLPAHTPPS HGAKLMAEPS SARTMHD TLL PDGDLGTDLD AINPSLTDFD FQGNLWEQLK DDSLALDPLV LVTSSPTSSS MLPPPPAAHC FPPGPCLAET GNEAGELAPP GSGGSGALGD MHLSTLYSAF VELESTPSSA AAGPAVYLSP GSKPLALA
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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.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Foxn1 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 receipt 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:

1. 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:	FOXN1
Alternative Name:	Foxn1 (FOXN1 Products)
Background:	<p>Transcriptional regulator which regulates the development, differentiation, and function of thymic epithelial cells (TECs) both in the prenatal and postnatal thymus. Acts as a master regulator of the TECs lineage development and is required from the onset of differentiation in progenitor TECs in the developing fetus to the final differentiation steps through which TECs mature to acquire their full functionality. Regulates, either directly or indirectly the expression of a variety of genes that mediate diverse aspects of thymus development and function, including MHC Class II, DLL4, CCL25, CTSL, CD40 and PAX1. Regulates the differentiation of the immature TECs into functional cortical TECs (cTECs) and medullary TECs (mTECs) (PubMed:22072979). Essential for maintenance of mTECs population in the postnatal thymus (PubMed:19955175). Involved in the morphogenesis and maintenance of the three-dimensional thymic microstructure which is necessary for a fully functional thymus (PubMed:21109991). Plays an important role in the maintenance of hematopoiesis and particularly T lineage progenitors within the bone marrow niche with age (PubMed:24184560). Essential for the vascularization of the thymus anlage (PubMed:19853842). Promotes the terminal differentiation of epithelial cells in the epidermis and hair follicles, partly by negatively regulating the activity of protein kinase C (PubMed:17459087). {ECO:0000269 PubMed:17459087, ECO:0000269 PubMed:19853842, ECO:0000269 PubMed:19955175, ECO:0000269 PubMed:21109991, ECO:0000269 PubMed:22072979, ECO:0000269 PubMed:24184560}.</p>
Molecular Weight:	70.2 kDa Including tag.
UniProt:	Q61575

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 guarantee 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)

Images



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