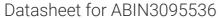
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Sp3 Protein (AA 1-781) (His tag)





Overview

Quantity:	1 mg
Target:	Sp3
Protein Characteristics:	AA 1-781
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Sp3 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

MTAPEKPVKQ EEMAALDVDS GGGGGGGGGH GEYLQQQQQH GNGAVAAAAA AQDTQPSPLA LLAATCSKIG PPSPGDDEEE AAAAAGAPAA AGATGDLASA QLGGAPNRWE VLSATPTTIK DEAGNLVQIP SAATSSGQYV LPLQNLQNQQ IFSVAPGSDS SNGTVSSVQY QVIPQIQSAD GQQVQIGFTG SSDNGGINQE SSQIQIIPGS NQTLLASGTP SANIQNLIPQ TGQVQVQGVA IGGSSFPGQT QVVANVPLGL PGNITFVPIN SVDLDSLGLS GSSQTMTAGI NADGHLINTG QAMDSSDNSE RTGERVSPDI NETNTDTDLF VPTSSSSQLP VTIDSTGILQ QNTNSLTTSS GQVHSSDLQG NYIQSPVSEE TQAQNIQVST AQPVVQHLQL QESQQPTSQA QIVQGITPQT IHGVQASGQN ISQQALQNLQ LQLNPGTFLI QAQTVTPSGQ VTWQTFQVQG VQNLQNLQIQ NTAAQQITLT PVQTLTLGQV AAGGAFTSTP VSLSTGQLPN LQTVTVNSID SAGIQLHPGE NADSPADIRI KEEEPDPEEW QLSGDSTLNT NDLTHLRVQV VDEEGDQQHQ EGKRLRRVAC TCPNCKEGGG RGTNLGKKKQ HICHIPGCGK VYGKTSHLRA HLRWHSGERP FVCNWMYCGK RFTRSDELQR HRRTHTGEKK FVCPECSKRF MRSDHLAKHI KTHQNKKGIH SSSTVLASVE

Characteristics:

AARDDTLITA GGTTLILANI QQGSVSGIGT VNTSATSNQD ILTNTEIPLQ LVTVSGNETM E

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.

• Human SP3 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.
- 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.

Product Details	
Grade:	Crystallography grade
Target Details	
Target:	Sp3
Alternative Name:	SP3 (Sp3 Products)
Background:	Transcriptional factor that can act as an activator or repressor depending on isoform and/or
	post-translational modifications. Binds to GT and GC boxes promoter elements. Competes with
	SP1 for the GC-box promoters. Weak activator of transcription but can activate a number of
	genes involved in different processes such as cell-cycle regulation, hormone-induction and
	house-keeping. {ECO:0000269 PubMed:10391891, ECO:0000269 PubMed:11812829,
	ECO:0000269 PubMed:12419227, ECO:0000269 PubMed:12837748,
	ECO:0000269 PubMed:15247228, ECO:0000269 PubMed:15494207,
	ECO:0000269 PubMed:15554904, ECO:0000269 PubMed:16781829,
	ECO:0000269 PubMed:17548428, ECO:0000269 PubMed:18187045,
	ECO:0000269 PubMed:18617891, ECO:0000269 PubMed:9278495}.
Molecular Weight:	82.9 kDa Including tag.
UniProt:	Q02447
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:	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.

Handling

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