Datasheet for ABIN3095097

POLR2B Protein (AA 1-1174) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	POLR2B
Protein Characteristics:	AA 1-1174
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This POLR2B protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MYDADEDMQY DEDDDEITPD LWQEACWIVI SSYFDEKGLV RQQLDSFDEF IQMSVQRIVE DAPPIDLQAE AQHASGEVEE PPRYLLKFEQ IYLSKPTHWE RDGAPSPMMP NEARLRNLTY SAPLYVDITK TVIKEGEEQL QTQHQKTFIG KIPIMLRSTY CLLNGLTDRD LCELNECPLD PGGYFIINGS EKVLIAQEKM ATNTVYVFAK KDSKYAYTGE CRSCLENSSR PTSTIWVSML ARGGQGAKKS AIGQRIVATL PYIKQEVPII IVFRALGFVS DRDILEHIIY DFEDPEMMEM VKPSLDEAFV IQEQNVALNF IGSRGAKPGV TKEKRIKYAK EVLQKEMLPH VGVSDFCETK KAYFLGYMVH RLLLAALGRR ELDDRDHYGN KRLDLAGPLL AFLFRGMFKN LLKEVRIYAQ KFIDRGKDFN LELAIKTRII SDGLKYSLAT GNWGDQKKAH QARAGVSQVL NRLTFASTLS HLRRLNSPIG RDGKLAKPRQ LHNTLWGMVC PAETPEGHAV GLVKNLALMA YISVGSQPSP ILEFLEEWSM ENLEEISPAA IADATKIFVN GCWVGIHKDP EQLMNTLRKL RRQMDIIVSE VSMIRDIRER EIRIYTDAGR ICRPLLIVEK QKLLLKKRHI DQLKEREYNN YSWQDLVASG VVEYIDTLEE ETVMLAMTPD DLQEKEVAYC STYTHCEIHP SMILGVCASI IPFPDHNQSP

	RNTYQSAMGK QAMGVYITNF HVRMDTLAHV LYYPQKPLVT TRSMEYLRFR ELPAGINSIV AIASYTGYNQ EDSVIMNRSA VDRGFFRSVF YRSYKEQESK KGFDQEEVFE KPTRETCQGM RHAIYDKLDD DGLIAPGVRV SGDDVIIGKT VTLPENEDEL ESTNRRYTKR DCSTFLRTSE TGIVDQVMVT LNQEGYKFCK IRVRSVRIPQ IGDKFASRHG QKGTCGIQYR QEDMPFTCEG ITPDIIINPH AIPSRMTIGH LIECLQGKVS ANKGEIGDAT PFNDAVNVQK ISNLLSDYGY HLRGNEVLYN GFTGRKITSQ IFIGPTYYQR LKHMVDDKIH SRARGPIQIL NRQPMEGRSR DGGLRFGEME RDCQIAHGAA QFLRERLFEA SDPYQVHVCN LCGIMAIANT RTHTYECRGC RNKTQISLVR MPYACKLLFQ ELMSMSIAPR MMSV **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. • Human POLR2B 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: 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.

Product Details

	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:	POLR2B
Alternative Name:	POLR2B (POLR2B Products)
Background:	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Second largest component of RNA polymerase II which synthesizes mRNA precursors and many functional non-coding RNAs. Proposed to contribute to the polymerase catalytic activity and forms the polymerase active center together with the largest subunit. Pol II is the central component of the basal RNA polymerase II transcription machinery. It is composed of mobile elements that move relative to each other. RPB2 is part of the core element with the central large cleft, the clamp element that moves to open and close the cleft and the jaws that are thought to grab the incoming DNA template (By similarity). {ECO:0000250, ECO:0000269|PubMed:9852112}.
Molecular Weight:	134.9 kDa Including tag.
UniProt:	P30876
Pathways:	Regulatory RNA Pathways, DNA Damage Repair

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

Application Details

	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