Datasheet for ABIN3135645

CDK13 Protein (AA 1-1511) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	CDK13
Protein Characteristics:	AA 1-1511
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CDK13 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MPSSSDTALG GGGGLSWAEK KLEERRKRRR FLSPQQPPLL LPLLQPQLLQ PPPPPPPLLF LAAPGAAAAA AAAAAASSSC FSPGPPLEVK RLARGKRRPG GRQKRRRGPR AGQEAEKRRV FSLPQPQQDG GGGASSGGGV TPLVEYEDVS SQSEQGLLLG GASAATAATA AGGTGGNGGS PASSSGTQRR AEGSERRPRR DRRSSSGRSK ERHREHRRRD GTRSGSEASK ARSRHGHSGE ERAEAAKSGS SSSSGGRRKS ASATSSSSSS RKDRDLKAHR SRTKSSKEPP SAYKEPPKAY REDKSEPKAY RRRQRSLSPL GGRDESPVSH RASQSLRSRK SPSPAGGGSS PYSRRLPRSP SPYSRRRSPS YSRHSSYERG GDVSPSPYSS SSWRRSRSPY SPVLRRSAKS RSRSPYSSRH SRSRSRHRLS RSRSRHSSIS PSTLTLKSSL AAELNKNKKA RAAEAARAAE AAKAAEAAKA AEAAAKAAKA SNASTPTKGN TETGASVSQT NHVKEVKKLK TEHAPSPSSG GTVKSDKAKT KPPLQVTKVD NNLTVEKATK KTVVGKESKP AATKEEPVST KEKSKPLTPS TGAKEKEQHV ALVTSTLPPL PLPPMLPEDK DADSLRGNIS VKAVKKEVEK KLRCLLADLP LPPELPGGDD LSKSPEEKKT AAQLHSKRRP KICGPRYGEI KEKDIDWGKR CVDKFDIIGI IGEGTYGQVY

KARDKDTGEM VALKKVRLDN EKEGFPITAI REIKILRQLT HQSIINMKEI VTDKEDALDF KKDKGAFYLV FEYMDHDLMG LLESGLVHFN ENHIKSFMRQ LMEGLDYCHK KNFLHRDIKC SNILLNNRGQ IKLADFGLAR LYSSEESRPY TNKVITLWYR PPELLLGEER YTPAIDVWSC GCILGELFTK KPIFQANQEL AQLELISRIC GSPCPAVWPD VIKLPYFNTM KPKKQYRRKL REEFVFIPAA ALDLFDYMLA LDPSKRCTAE QALQCEFLRD VEPSKMPPPD LPLWQDCHEL WSKKRRRQKQ MGMTDDLSTI KAPRKDLSLG LDDSRTNTPQ GVLPPAQLKS QSNSNVAPVI TGPGQPLNHS ELAILLNLLQ SKSSVNMADF VQVLNIKVNS ETQQQLNKIN LPAGILATGE KQTDPSTPQQ ESSKSLGGVQ PSQTIQPKVE TDAAQAAVQS AFAVLLTQLI KAQQSKQKDA MLEERENGSG HEAPLQLRPP LEPSTPGSGQ DDLIQHQDRR ILELTPEPDR PRILPPDQRP PEPPEPPPVT EEDLDYRTEN QHVPTTSSSL TDPHAGVKAA LLQLLAQHQP QDDPKREGGI DYPTGDTYVP SSDYKDNFGS SFSAAPYVSS DGLGSSSAAA PLEARSFIGN SDIQSLDNYS TASSHTGGPP QTSAFTESFA SSVAGYGDIY LNAGPMLFSG DKDHRFEYSH GPITVLTNSN DPSTGPESTH PLPAKMHNYN YGGNLQENPG GPSLMHGQTW TSPAQGPGYS QGYRGHISTS AGRGRGRGLP Y

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 Cdk13 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.

Product Details

	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:	CDK13
Alternative Name:	Cdk13 (CDK13 Products)
Background:	Cyclin-dependent kinase which displays CTD kinase activity and is required for RNA splicing. Has CTD kinase activity by hyperphosphorylating the C-terminal heptapeptide repeat domain (CTD) of the largest RNA polymerase II subunit RPB1, thereby acting as a key regulator of transcription elongation. Required for RNA splicing, probably by phosphorylating SRSF1/SF2. Required during hematopoiesis. {ECO:0000269|PubMed:17261272}.
Molecular Weight:	165.5 kDa Including tag.
UniProt:	Q69ZA1

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

Application Details

	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

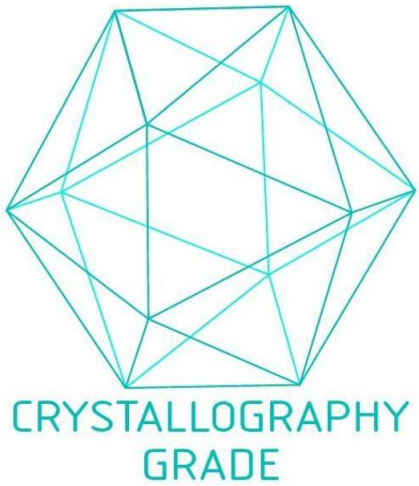

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process