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Datasheet for ABIN3094736 POLI Protein (AA 1-740) (Strep Tag)

Image



Overview

Quantity:	1 mg
Target:	POLI
Protein Characteristics:	AA 1-740
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This POLI protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MEKLGVEPEE EGGGDDDEED AEAWAMELAD VGAAASSQGV HDQVLPTPNA SSRVIVHVDL
	DCFYAQVEMI SNPELKDKPL GVQQKYLVVT CNYEARKLGV KKLMNVRDAK EKCPQLVLVN
	GEDLTRYREM SYKVTELLEE FSPVVERLGF DENFVDLTEM VEKRLQQLQS DELSAVTVSG
	HVYNNQSINL LDVLHIRLLV GSQIAAEMRE AMYNQLGLTG CAGVASNKLL AKLVSGVFKP
	NQQTVLLPES CQHLIHSLNH IKEIPGIGYK TAKCLEALGI NSVRDLQTFS PKILEKELGI
	SVAQRIQKLS FGEDNSPVIL SGPPQSFSEE DSFKKCSSEV EAKNKIEELL ASLLNRVCQD
	GRKPHTVRLI IRRYSSEKHY GRESRQCPIP SHVIQKLGTG NYDVMTPMVD ILMKLFRNMV
	NVKMPFHLTL LSVCFCNLKA LNTAKKGLID YYLMPSLSTT SRSGKHSFKM KDTHMEDFPK
	DKETNRDFLP SGRIESTRTR ESPLDTTNFS KEKDINEFPL CSLPEGVDQE VFKQLPVDIQ
	EEILSGKSRE KFQGKGSVSC PLHASRGVLS FFSKKQMQDI PINPRDHLSS SKQVSSVSPC
	EPGTSGFNSS SSSYMSSQKD YSYYLDNRLK DERISQGPKE PQGFHFTNSN PAVSAFHSFP
	NLQSEQLFSR NHTTDSHKQT VATDSHEGLT ENREPDSVDE KITFPSDIDP QVFYELPEAV

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QKELLAEWKR AGSDFHIGHK

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics: Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALICE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

Expression System:

- ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System

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	(ALiCE®):
	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag
	capture material. 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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade
Target Details	
Target:	POLI
Alternative Name:	POLI (POLI Products)
Background:	DNA polymerase iota (EC 2.7.7.7) (Eta2) (RAD30 homolog B),FUNCTION: Error-prone DNA
	polymerase specifically involved in DNA repair (PubMed:11013228, PubMed:11387224). Plays
	an important role in translesion synthesis, where the normal high-fidelity DNA polymerases
	cannot proceed and DNA synthesis stalls (PubMed:11013228, PubMed:11387224,
	PubMed:14630940, PubMed:15199127). Favors Hoogsteen base-pairing in the active site
	(PubMed:15254543). Inserts the correct base with high-fidelity opposite an adenosine template
	(PubMed:15254543). Exhibits low fidelity and efficiency opposite a thymidine template, where in
	will preferentially insert guanosine (PubMed:11013228). May play a role in hypermutation of
	immunoglobulin genes (PubMed:12410315). Forms a Schiff base with 5'-deoxyribose
	phosphate at abasic sites, but may not have lyase activity (PubMed:11251121,
	PubMed:14630940). {ECO:0000269 PubMed:11013228, ECO:0000269 PubMed:11251121,
	EC0:0000269 PubMed:11387224, EC0:0000269 PubMed:12410315,
	EC0:0000269 PubMed:14630940, EC0:0000269 PubMed:15199127,
	EC0:0000269 PubMed:15254543}.
Molecular Weight:	83.0 kDa
UniProt:	Q9UNA4
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 guarantee though.
Comment:	ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiny Date:	Unlimited (if stored properly)

Expiry Date: Unlimited (if stored properly)



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

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