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Datasheet for ABIN3094326

PPP2R3A Protein (AA 1-1150) (Strep Tag)

1 Image

Overview

Quantity:	1 mg
Target:	PPP2R3A
Protein Characteristics:	AA 1-1150
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PPP2R3A protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MAATYRLVVS TVNHYSSVVI DRRFEQAIHY CTGTCHTFTH GIDCIVVHHS VCADLLHIPV
SQFKDADLNS MFLPHENGLS SAEGDYPQQA FTGIPRVKRG STFQNTYNLK DIAGEAISFA
SGKIKEFSFE KLKNSNHAAY RKGRKVKSDS FNRRSVDL DL LCGHYNNDGN APSFGLLRSS
SVEEKPLSHR NSLDTNLTSM FLQNFSEEDL VTQILEKHKI DNFSSGTDIK MCLDILLKCS
EDLKKCTDII KQCIKKKSGS SISEGSGNDT ISSSETVYMN VMTRLASYLK KLPFEFMQSG
NNEALDLTEL ISNMPQLT PFSPVFGTEQ PPKYEDVVQL SASDSGRFQT IELQNDKPNS
RKMDTVQSIP NNSTNSLYNL EVNDPRTLKA VQVQSQSLTM NPLENVSSDD LMETLYIEEE
SDGKKALDKG QKTENGPSHE LLKVNEHRAE FPEHATHLKK CPTPMQNEIG KIFEKSFVNL
PKEDCKSKVS KFEEGDQRDF TNSSSQEEID KLLMDLESFS QKMETSLREP LAKGKNSNFL
NSHSQLTGQT LVDLEPKSKV SSPIEKVSPS CLTRIIETNG HKIEEEDRAL LLRILESIED
FAQELVECKS SRGSLSQEKE MMQILQETLT TSSQANL SVC RSPVGDKAKD TTSAVLIQQT
PEVIKIQNKP EKKPGTPLPP PATSPSSPRP LSPVPHVNNV VNAPLSINIP RYFPEGLPD

TCSNHEQTLS RIETAFMDIE EQKADIYEMG KIAKVCGCPL YWKAPMFRAA GGEKTGFVTA
QSFIAMWRKL LNNHHDDASK FICLLAKPNC SSLEQEDFIP LLQDVVDTHP GLTFLKDAPE
FHSRYITTVI QRIFYTVNRS WSGKITSTEI RKSNFLQTLA LLEEEEDINQ ITDYFSYEHF
YVIYCKFWEL DTDHDLYISQ ADLSRYNDQA SSSRIIERIF SGAVTRGKTI QKEGRMSYAD
FVWFLISEED KRNPTSIEYW FRCMDVDGDG VLSMYELEYF YEEQCERMEA MGIEPLPFHD
LLCQMLDLVK PAVDGKITLR DLKRCRMAHI FYDTFFNLEK YLDHEQRDPF AVQKDVENDG
PEPSDWDRFA AEEYETLVAE ESAQAQFQEG FEDYETDEPA SPSEFGNKS N KILSASLPEK
CGKLQSVDEE

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 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!

Product Details

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 (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.
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:

>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:

PPP2R3A

Alternative Name:

PPP2R3A ([PPP2R3A Products](#))

Background:

Serine/threonine-protein phosphatase 2A regulatory subunit B" subunit alpha (PP2A subunit B isoform PR72/PR130) (PP2A subunit B isoform R3 isoform) (PP2A subunit B isoforms B"-PR72/PR130) (PP2A subunit B isoforms B72/B130) (Serine/threonine-protein phosphatase 2A 72/130 kDa regulatory subunit B),FUNCTION: The B regulatory subunit might modulate substrate selectivity and catalytic activity, and also might direct the localization of the catalytic enzyme to a particular subcellular compartment.

Molecular Weight:

130.3 kDa

UniProt:

[Q06190](#)

Pathways:

[PI3K-Akt Signaling](#)

Application Details

Application Notes:

In addition to the applications listed above we expect the protein to work for functional studies

Application Details

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.

Expiry Date: Unlimited (if stored properly)



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