

Datasheet for ABIN3094825

PFAS Protein (AA 1-1338) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	PFAS
Protein Characteristics:	AA 1-1338
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PFAS protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MSPVLHFYVR PSGHEGAAPG HTRRKLGKGL PELQGVETEL CYNVNWTAEA LPSAEETKKL</p> <p>MWLFGCPLLL DDVARESWLL PGSNDLLLEV GPRLNFSTPT STNIVSVCRA TGLGPVDRVE</p> <p>TTRRYRLSFA HPPSAEVEAI ALATLHDRMT EQHFPHPIQS FSPESMPEPL NGPINILGEG</p> <p>RLALEKANQE LGLALDSWDL DFYTKRFQEL QRNPSTVEAF DLAQSNSEHS RHWFFKGQLH</p> <p>VDGQKL VHSL FESIMSTQES SNPNNVLKFC DNSSAIQGKE VRFLRPEDPT RPSRFQQQQG</p> <p>LRHVFTAET HNFPTGVCPF SGATTGTGGR IRDVQCTGRG AHVVAGTAGY CFGNLHIPGY</p> <p>NLPWEDPSFQ YPGNFARPLE VAIEASNGAS DYGNKFGEPV LAGFARSLGL QLPDQQRREW</p> <p>IKPIMFSGGI GSMEADHISK EAPEPGMEVV KVGGPVYRIG VGGGAASSVQ VQGDNTSDLD</p> <p>FGAVQRGDPE MEQKMNVRIR ACVEAPKGNP ICSLHDQGAG GNGNVLKELS DPAGAIYTS</p> <p>RFQLGDPTLN ALEIWGAEQ ESNALLRSP NRDFLTHVSA RERCPACFVG TITGDRRIVL</p> <p>VDDRECPVRR NGQGDAPPTP LPTPVDLELE WVLGKMPRKE FFLQRKPPML QPLALPPGLS</p>

VHQALERVLR LPAVASKRYL TNKVDRSVGG LVAQQQCVGP LQTPLADVAV VALSHEELIG
AATALGEQPV KSLDPKVAA RLAVAEALTN LVFALVTDLR DVKCSGNWMW AAKLPGEAA
LADACEAMVA VMAALGVAVD GKGDSLMAA RVGTETVRAP GSLVISAYAV CPDITATVTP
DLKHPEGRGH LLYVALSPGQ HRLGGTALAQ CFSQLGEHPP DLDLPENLVR AFSITQGLLK
DRLLCSGHDV SDGGLVTCLL EMAFAGNCGL QVDVPVPRVD VLSVLFAEEP GLVLEVQEPD
LAQVLKRYRD AGLHCLELGH TGEAGPHAMV RVSVNGAVVL EEPVGELRAL WEETSFQLDR
LQAEPRCVAE EERGLRERMG PSYCLPPTFP KASVPREPGG PSPRVAILRE EGSNGDREMA
DAFHLAGFEV WDVMTQDLCS GAIGLDTFRG VAFVGGFSYA DVLGSAKGWA AAVTFHPRAG
AELRRFRKRP DTFSLGVCNG CQLLALLGWV GGDPNEDAAE MGPDSQPARP GLLLRHNLGS
RYESRWASVR VGPGPALMLR GMEGAVLPVW SAHGEGYVAF SSELQAQIE ARGLAPLHWA
DDGPNTEQY PLNPNGSPGG VAGICSDGR HLAVMPHPR AVRPWQWAWR PPPFDLTTS
PWLQLFINAR NWTLEGSC

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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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

Product Details

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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	PFAS
Alternative Name:	PFAS (PFAS Products)
Background:	Phosphoribosylformylglycinamide synthase (FGAM synthase) (FGAMS) (EC 6.3.5.3) (Formylglycinamide ribonucleotide amidotransferase) (FGAR amidotransferase) (FGAR-AT) (Formylglycinamide ribotide amidotransferase) (Phosphoribosylformylglycineamide amidotransferase),FUNCTION: Phosphoribosylformylglycinamide synthase involved in the purines biosynthetic pathway. Catalyzes the ATP-dependent conversion of formylglycinamide ribonucleotide (FGAR) and glutamine to yield formylglycinamide ribonucleotide (FGAM) and glutamate. {ECO:0000305 PubMed:10548741}.
Molecular Weight:	144.7 kDa
UniProt:	O15067

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 <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce

Application Details

even the most difficult-to-express proteins, including those that require post-translational modifications.

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Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months