Datasheet for ABIN3092843

GSAP Protein (AA 1-854) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	GSAP (PION)
Protein Characteristics:	AA 1-854
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GSAP protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MALRLVADFD LGKDVLPWLR AQRAVSEASG AGSGGADVLE NDYESLHVLN VERNGNIIYT YKDDKGNVVF GLYDCQTRQN ELLYTFEKDL QVFSCSVNSE RTLLAASLVQ STKEGKRNEL QPGSKCLTLL VEIHPVNNVK VLKAVDSYIW VQFLYPHIES HPLPENHLLL ISEEKYIEQF RIHVAQEDGN RVVIKNSGHL PRDRIAEDFV WAQWDMSEQR LYYIDLKKSR SILKCIQFYA DESYNLMFEV PLDISLSNSG FKLVNFGCDY HQYRDKFSKH LTLCVFTNHT GSLCVCYSPK CASWGQITYS VFYIHKGHSK TFTTSLENVG SHMTKGITFL NLDYYVAVYL PGHFFHLLNV QHPDLICHNL FLTGNNEMID MLPHCPLQSL SGSLVLDCCS GKLYRALLSQ SSLLQLLQNT CLDCEKMAAL HCALYCGQGA QFLEAQIIQW ISENVSACHS FDLIQEFIIA SSYWSVYSET SNMDKLLPHS SVLTWNTEIP GITLVTEDIA LPLMKVLSFK GYWEKLNSNL EYVKYAKPHF HYNNSVVRRE WHNLISEEKT GKRRSAAYVR NILDNAVKVI SNLEARNLGP RLTPLLQEED SHQRLLMGLM VSELKDHFLR HLQGVEKKKI EQMVLDYISK LLDLICHIVE TNWRKHNLHS

WVLHFNSRGS AAEFAVFHIM TRILEATNSL FLPLPPGFHT LHTILGVQCL PLHNLLHCID SGVLLLTETA VIRLMKDLDN TEKNEKLKFS IIVRLPPLIG QKICRLWDHP MSSNIISRNH VTRLLQNYKK QPRNSMINKS SFSVEFLPLN YFIEILTDIE SSNQALYPFE GHDNVDAEFV EEAALKHTAM LLGL

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 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.

Product Details

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:	GSAP (PION)
Alternative Name:	GSAP (PION Products)
Background:	Gamma-secretase-activating protein (GSAP) (Protein pigeon homolog) [Cleaved into: Gamma-secretase-activating protein 16 kDa C-terminal form (GSAP-16K)],FUNCTION: Regulator of gamma-secretase activity, which specifically activates the production of amyloid-beta protein (amyloid-beta protein 40 and amyloid-beta protein 42), without affecting the cleavage of other gamma-secretase targets such has Notch. The gamma-secretase complex is an endoprotease complex that catalyzes the intramembrane cleavage of integral membrane proteins such as Notch receptors and APP (amyloid-beta precursor protein). Specifically promotes the gamma-cleavage of APP CTF-alpha (also named APP-CTF) by the gamma-secretase complex to generate amyloid-beta, while it reduces the epsilon-cleavage of APP CTF-alpha, leading to a low production of AICD. {ECO:0000269|PubMed:20811458}.
Molecular Weight:	97.8 kDa
UniProt:	A4D1B5

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

Application Details

	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. 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