

Datasheet for ABIN3126561

GGA1 Protein (AA 1-635) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	GGA1
Protein Characteristics:	AA 1-635
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GGA1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MEPAMEPETL EARINRATNP LNKELNWASI NSFCEQLNED FEGPPLATRL LAHKIQSPQE</p> <p>WEAIQALTVL ETCMKSCGKR FHDEVGKFRF LNELIKVVSP KYLGSRTEK VKSKILELLY</p> <p>SWTVCLPEEV KIAEAYQLMK KQGIVKSDPK LPEDAIFPLP PPRPKNVIFE DEEKSMLAR</p> <p>LLKSSHPEDL RAANKLIKEM VQEDQKRMEK ISKRVNAIEE VNNNVKLLTE MVMSHSQGAA</p> <p>SSSSEDLME LYQRCERMRP TLFRLASDTE DNDEALAEIL QANDNLTQVI NLYKQLVRGE</p> <p>EVNGDATASS IPGSTSALLD LSGLDLPPPG TTQPATPTRP GNQSSPEQLS ASVSLDDDEL</p> <p>MSLGLSDPTP PSGTSSDSVG WDNFQSSDGT ESSVPPPAQA PSMDCRPPAQ APPPTSSGLD</p> <p>DLDLLGKTLM QQALPPEAAQ VRWEKQPAP RLTLRDLQSK SSSPSPGAAS LLHTTSPEPP</p> <p>GPPPQATPTE FSLTSITVPL ESIKPSSILP VTVDYQHGFR VLFHFARDPL PGRSDVLVVV</p> <p>VSMLSTAPQP IRNIVQSAV PKVMKVRLQP PSGTELPAN PIVHPSAITQ VLLLANPQKE</p> <p>KVRLRYKLIF TMGDQTYNEM GDVDQFPPE TWGSL</p>

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.

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).

Product Details

Grade: custom-made

Target Details

Target: GGA1

Alternative Name: Gga1 ([GGA1 Products](#))

Background: ADP-ribosylation factor-binding protein GGA1 (Gamma-adaptin-related protein 1) (Golgi-localized, gamma ear-containing, ARF-binding protein 1),FUNCTION: Plays a role in protein sorting and trafficking between the trans-Golgi network (TGN) and endosomes (PubMed:25405894). Mediates the ARF-dependent recruitment of clathrin to the TGN and binds ubiquitinated proteins and membrane cargo molecules with a cytosolic acidic cluster-dileucine (DXXLL) motif. Mediates export of the GPCR receptor ADRA2B to the cell surface (By similarity). Required for targeting PKD1:PKD2 complex from the trans-Golgi network to the cilium membrane (PubMed:25405894). Regulates retrograde transport of proteins such as phosphorylated form of BACE1 from endosomes to the trans-Golgi network (By similarity). {ECO:0000250|UniProtKB:Q9UJY5, ECO:0000269|PubMed:25405894}.

Molecular Weight: 70.0 kDa

UniProt: [Q8R0H9](#)

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.

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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. 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