

Datasheet for ABIN3092827

GNAS Protein (AA 1-1037) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	GNAS
Protein Characteristics:	AA 1-1037
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GNAS protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MGVRNCLYGN NMSGQRDIPP EIGEQPEQPP LEAPGAAAPG AGPSPAEEME TEPHNEPIP VENDGEACGP PEVSRPNFQV LNPAFREAGA HGSYSPPPEE AMPFEAEQPS LGGFWPTLEQ PGFPSGVHAG LEAFGPALME PGAFSGARPG LGGYSPPPEE AMPFEFDQPA QRGCSQLLLQ VPDLAPGGPG AAGVPGAPPE EPQALRPAKA GSRGGYSPPP EETMPFELDQ EGFGDSDSPPP GLSRVIAQVD GSSQFAAVAA SSAVRLTPAA NAPPLWVPGA IGSPSQEAVR PPSNFTGSSP WMEISGPPFE IGSAPAGVDD TPVNMDSPPI ALDGPPPIKVS GAPDKRERAE RPPVEEEAAE MEGAADAAEG GKVPSPGYGS PAAGAASADT AARAAPAAPA DPDSGATPED PDSGTAPADP DSGAFAADPD SGAAPAAPAD PDGAAPDAP ADPDGAAPD APADPDAGAA PEAPAAPAAA ETRAAHVAPA APDAGAPTAP AASATRAAQV RRAASAAPAS GARRKIHLRP PSPEIQAADP PTPRPTRASA WRGKSESSRG RRVYYDEGVA SSDDDSSGDE SDDGTSGCLR WFQHRRNRRR RKPQRNLLRN FLVQAFGGCF GRSESPQPKA SRSLKVKKVP LAEKRRQMRK EALEKRAQKR

AEKKRSKLID KQLQDEKMGY MCTHRLLLG AGESGKSTIV KQMRILHVNG FNGEGGEEDP
QAARNSDGE KATKVQDIKN NLKEAETIV AAMSNLVPPV ELANPENQFR VDYILSVMNV
PDFDFPPEFY EHAKALWEDE GVRACYERSN EYQLIDCAQY FLDKIDVIKQ ADYVPSDQDL
LRCRVLTSIG FETKFQVDKV NFHMFVGGQ RDERRKWIQC FNDVTIIFV VASSSYNMVI
REDNQTNRLQ EALNLFKSIW NNRWLRTISV ILFLNKQDLL AEKVLGKSK IEDYFPEFAR
YTPPEDATPE PGEDPRVTRA KYFIRDEFRL ISTASGDGRH YCYPHFTCAV DTENIRRVFN
DCRDIIQRMH LRQYELL

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.

Product Details

- 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:	GNAS
Alternative Name:	GNAS (GNAS Products)
Background:	Guanine nucleotide-binding protein G(s) subunit alpha isoforms XLas (Adenylate cyclase-stimulating G alpha protein) (Extra large alphas protein) (XLalphas),FUNCTION: Guanine nucleotide-binding proteins (G proteins) function as transducers in numerous signaling pathways controlled by G protein-coupled receptors (GPCRs). Signaling involves the activation of adenylyl cyclases, resulting in increased levels of the signaling molecule cAMP. GNAS functions downstream of several GPCRs, including beta-adrenergic receptors. XLas isoforms interact with the same set of receptors as GNAS isoforms (By similarity). {ECO:0000250 UniProtKB:Q6R0H7}.
Molecular Weight:	111.0 kDa
UniProt:	Q5JWF2
Pathways:	Thyroid Hormone Synthesis , cAMP Metabolic Process , Myometrial Relaxation and Contraction , Embryonic Body Morphogenesis

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

Application Details

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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