

Datasheet for ABIN7554040

GNAS Protein (AA 1-1037) (His tag)



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Overview

Quantity:	1 mg
Target:	GNAS
Protein Characteristics:	AA 1-1037
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GNAS protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat GNAS Protein expressed in mammalian cells.
Sequence:	<p>MGVRNCLYGN NMSGQRDIPP EIGEQPEQPP LEAPGAAAPG AGPSPAEEME TEPHNEPIP</p> <p>VENDGEACGP PEVSRPNFQV LNPAFREAGA HGSYSPPPEE AMPFEAEQPS LGGFWPTLEQ</p> <p>PGFSPGVHAG LEAFGPALME PGAFSGARPG LGGYSPPPEE AMPFEFDQPA QRGCSQLLLQ</p> <p>VPDLAPGGPG AAGVPGAPPE EPQALRPAKA GSRGGYSPPP EETMPFELDQ EGFGDDSPPP</p> <p>GLSRVIAQVD GSSQFAAVAA SSAVRLTPAA NAPPLWVPGA IGSPSQEAVR PPSNFTGSSP</p> <p>WMEISGPPFE IGSAPAGVDD TPVNMDSPPI ALDGPPPIKVS GAPDKRERAE RPPVEEEAAE</p> <p>MEGAADAAEG GKVPSPGYGS PAAGAASADT AARAAPAAPA DPDSGATPED PDSGTAPADP</p> <p>DSGAFAADPD SGAAPAAPAD PDGAAPDAP ADPDGAAPD APADPDAGAA PEAPAAPAAA</p> <p>ETRAAHVAPA APDAGAPTAP AASATRAAQV RRAASAAPAS GARRKIHLRP PSPEIQAADP</p> <p>PTPRPTRASA WRGKSESSRG RRVYYDEGVA SSDDSSSGDE SDDGTSGCLR WFQHRRNRRR</p> <p>RKPQRNLLRN FLVQAFGGCF GRSESPQPKA SRSLKVKKVP LAEKRRQMRK EALEKRAQKR</p>

AEKKRSKLID KQLQDEKMGY MCTHRLLLLG AGESGKSTIV QQMRILHVNG FNGEGGEEDP
QAARSNSDGE KATKVQDIKN NLKEAETIV AAMSNLVPPV ELANPENQFR VDYILSVMNV
PDFDFPPEFY EHAKALWEDE GVRACYERSN EYQLIDCAQY FLDKIDVIKQ ADYVPSDQDL
LRCRVLTSGL FETKFQVDKV NFHMFVGGQ RDERRKWIQC FNDVTAIIFV VASSSYNMV
REDNQTNRLQ EALNLFKSIW NNRWLRTISV ILFLNKQDLL AEKVLGKSK IEDYFPEFAR
YTPPEDATPE PGEDPRVTRA KYFIRDEFRLR ISTASGDGRH YCYPHFTCAV DTENIRRVFN
DCRDIIQRMH LRQYELL **Sequence without tag. The proposed Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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

Target Details

	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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months