

Datasheet for ABIN7564142

GNAS Protein (AA 1-1133) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	GNAS
Protein Characteristics:	AA 1-1133
Origin:	Mouse
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 mammalien cells.
Sequence:	<p>MGMFNCLHGN NMSGQHDIPP EVGEQPEQEP LEAPGAAAPG AGAGPAEEMA TEPDSEPSNN</p> <p>EPVPDETGSE ISGPPEDSKS DIQSPCQAFE EVRVGGDYSP PPEEAMPFET QQPSLGDFWP</p> <p>TLEQPGPSGT PSGLQAFNPA ILEPGTPTGA SPGLGAYTPP PEEAMPFEFN EPAQGDHSQP</p> <p>PLQVPDLAPG GPEALVPRAL PAEPGNIRFE NAGFREDYSP PPEESVPFQV GGEFFGGDSP</p> <p>PPGLPRVIPQ IGIGGEFPTV AVPSALCLAP AENAPPLWVR GAIDRPFREA VRSPPNFACD</p> <p>SPPMEITRPL LEIGRASIGV DDDTAVNMDS PPIASDGPII EVSGAPDKSE CAERPPVERE</p> <p>AAEMEGSPTT ATAVEGKVPS PERGDGSSTQ PEAMDAKPAP AAQAVSTGSD AGAPTDSAML</p> <p>TDSQSDAGED GTAPGTPSDL QSDPEELEEA PAVRADPDGG AAPVAPATPA ESESEGRDP</p> <p>AAEPASEAVP ATTAESASGA APVTQVEPAA AAVSATLAEP AARAAPITPK EPTTRAVPSA</p> <p>RAHPAAGAVP GAPAMSASAR AAAARAAYAG PLVWGARSLS ATPAARASLP ARAAAAAARA</p> <p>SAARAVAAGR SASAAPSRAH LRPPSPEIQV ADPPTPRPPP RPTAWPDKYE RGRSCCRYEA</p>

SSGICEIESS SDESEEGATG CFQWLLRRNR RPGLPRSHTV GSNPVRNFFT RAFGSCFGLS
ECTRSRSLSP GKAKDPMEEER RKQMRKEAIE MREQKRADKK RSKLIDKQLE EEKMDYMCTH
RLLLLGAGES GKSTIVKQMR ILHVNGFNGE GGEEDPQAAR SNSDGEKATK VQDIKNNLKE
AIETIVAAMS NLVPPVELAN PENQFRVDYI LSVMNVPNFD FPPEFYEHAK ALWEDEGVRA
CYERSNEYQL IDCAQYFLDK IDVIKQADYV PSDQDLLRCR VLTSGIFETK FQVDKVNFMH
FDVGGQRDER RKWIQCFNDV TAIIFVVASS SYNMVIREDN QTNRLQEALN LFKSIWNNRW
LRTISVILFL NKQDLLAEKV LAGKSKIEDY FPEFARYTTP EDATPEPGED PRVTRAKYFI
RDEFLRISTA SGDGRHYCYP HFTCAVDTEN IRRVFNDCRD IIQRMHLRQY ELL **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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
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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

Target Details

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. {ECO:0000269|PubMed:12145344}.

Molecular Weight: 121.5 kDa

UniProt: [Q6R0H7](#)

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