

Datasheet for ABIN7548018  
**GNA13 Protein (AA 1-377) (His tag)**



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## Overview

Quantity:	1 mg
Target:	GNA13
Protein Characteristics:	AA 1-377
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GNA13 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant GNA13 Protein expressed in mammalian cells.
Sequence:	MADFLPSRSV LSVCFPGCLL TSGEAEQQRK SKEIDKCLSR EKTYVKRLVK ILLGAGESG KSTFLKQMRI IHGQDFDQRA REEFRPTIYS NVIKGMRLV DAREKLHIPW GDNSNQHGHD KMMSFDTRAP MAAQGMVETR VFLQYLP AIR ALWADSGIQN AYDRRREFQL GESVKYFLDN LDKLGEPDYI PSQQDILLAR RPTKGIHEYD FEIKNVPFKM VDVGGQRSER KRWFECFDSV TSILFLVSSS EFDQVLMEDR LTNRLTESLN IFETIVNNRV FSNVSIILFL NKTDLLEEKV QIVSIKDYFL EFEGDPHCLR DVQKFLVECF RNKRRDQQQK PLYHHFTTAI NTENIRLVFR DVKDTILHDN LKQLMLQ <b>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.</b>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

## Product Details

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- 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.

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Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
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Grade:	custom-made
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## Target Details

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Target:	GNA13
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Alternative Name:	GNA13 ( <a href="#">GNA13 Products</a> )
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Background:	<p>Guanine nucleotide-binding protein subunit alpha-13 (G alpha-13) (G-protein subunit alpha-13),FUNCTION: Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems (PubMed:15240885, PubMed:16787920, PubMed:16705036, PubMed:27084452). Activates effector molecule RhoA by binding and activating RhoGEFs (ARHGEF1/p115RhoGEF, ARHGEF11/PDZ-RhoGEF and ARHGEF12/LARG) (PubMed:15240885, PubMed:12515866). GNA13-dependent Rho signaling subsequently regulates transcription factor AP-1 (activating protein-1) (By similarity). Promotes tumor cell invasion and metastasis by activating RhoA/ROCK signaling pathway (PubMed:16787920, PubMed:16705036, PubMed:27084452). Inhibits CDH1-mediated cell adhesion in process independent from Rho activation (PubMed:11976333).</p> <p>{ECO:0000250 UniProtKB:P27601, ECO:0000269 PubMed:11976333, ECO:0000269 PubMed:12515866, ECO:0000269 PubMed:15240885, ECO:0000269 PubMed:16705036, ECO:0000269 PubMed:16787920, ECO:0000269 PubMed:27084452}.</p>
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## Target Details

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Molecular Weight:	44.1 kDa
UniProt:	<a href="#">Q14344</a>
Pathways:	<a href="#">CXCR4-mediated Signaling Events</a>

## Application Details

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Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

## Handling

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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