

Recombinant Full Length Human GNAS Protein, C-Flag-tagged

Cat. No. GNAS-363HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Full Length Human GNAS Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.

Species

Human

Source

Mammalian Cells

Description

This locus has a highly complex imprinted expression pattern. It gives rise to maternally, paternally, and biallelically expressed transcripts that are derived from four alternative promoters and 5' exons. Some transcripts contain a differentially methylated region (DMR) at their 5' exons, and this DMR is commonly found in imprinted genes and correlates with transcript expression. An antisense transcript is produced from an overlapping locus on the opposite strand. One of the transcripts produced from this locus, and the antisense transcript, are paternally expressed noncoding RNAs, and may regulate imprinting in this region. In addition, one of the transcripts contains a second overlapping ORF, which encodes a structurally unrelated protein - Alex. Alternative splicing of downstream exons is also observed, which results in different forms of the stimulatory G-protein alpha subunit, a key element of the classical signal transduction pathway linking receptor-ligand interactions with the activation of adenylyl cyclase and a variety of cellular responses. Multiple transcript variants encoding different isoforms have been found for this gene. Mutations in this gene result in pseudohypoparathyroidism type 1a, pseudohypoparathyroidism type 1b, Albright hereditary osteodystrophy, pseudopseudohypoparathyroidism, McCune-Albright syndrome, progressive osseous heteroplasia, polyostotic fibrous dysplasia of bone, and some pituitary tumors.

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Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	45.5 kDa
AA Sequence	MGCLGNSKTEDQRNEEKAQREANKKIEKQLQKDKQVYRATHRLLLLGAGESGKSTI VKQMRILHVNGFNG EGGEEDPQAARSNSDGEKATKVQDIKNNLKEAIETIVAAMSN LVPPVELANPENQFRVDYILSVMNVPDF DFPPEFYEHAKALWEDEGVRACYERSNE YQLIDCAQYFLDKIDVIKQADYVPSDQDLLRCRVLTSGIFET KFQVDKVNFMFDVG GQRDERRKWIQCFNDVTAIIFVVAASSYNMVIREDNQTNRLQEALNLFKSIWNNR W LRTISVILFLNKQDLLAEKVLGKSKIETYFPEFARYTTPEDATPEPGEDPRVTRAKYF IRDEFLRIST ASGDGRHYCYPHFTCAVDTENIRRVFNDCRDIIQRMHLRQYELLTRRLEQKLISEED LAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Secreted Protein
Protein Pathways	Calcium signaling pathway, Dilated cardiomyopathy, Gap junction, GnRH signaling pathway, Long-term depression, Melanogenesis, Taste transduction, Vascular

smooth muscle contraction, Vibrio cholerae infection

Full Length Full L.

GENE INFORMATION

Gene Name GNAS GNAS complex locus [Homo sapiens (human)]

Official Symbol GNAS

Synonyms AHO; GSA; GSP; POH; GPSA; NESP; SCG6; SgVI; GNAS1; PITA3; C20orf45

Gene ID 2778

mRNA Refseq NM_000516.7

Protein Refseq NP_000507.1

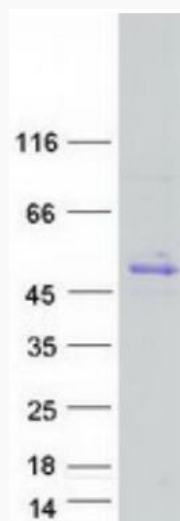
MIM 139320

UniProt ID O95467

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Coomassie blue staining of purified GNAS protein.

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