

Recombinant Human GNAS Protein, His-tagged

Cat. No. GNAS-2754H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GNAS Protein (Gly2-Leu394) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gly2-Leu394
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, pseu

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	dopseudohypoparathyroidism, McCune-Albright syndrome, progressive osseus heteroplasia, polyostotic fibrous dysplasia of bone, and some pituitary tumors.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 49.2 kDa Accurate Molecular Mass: 50 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	100mM NaHCO ₃ , 500mM NaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 100mM NaHCO ₃ , 500mM NaCl (pH8.3) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

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

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Synonyms	GNAS; GNAS complex locus; AHO; GSA; GSP; POH; GPSA; NESP; SCG6; SgVI; GNAS1; PITA3; C20orf45; protein ALEX; protein GNAS; protein SCG6 (secretogranin VI); G protein subunit alpha S; adenylate cyclase-stimulating G alpha protein; alternative gene product encoded by XL-exon; extra large alphas protein; guanine nucleotide binding protein (G protein), alpha stimulating activity polypeptide 1; guanine nucleotide regulatory protein; secretogranin VI
Gene ID	2778
mRNA Refseq	NM_000516
Protein Refseq	NP_000507
MIM	139320
UniProt ID	O95467

