

Recombinant Mouse Gnas Protein, Myc/DDK-tagged

Cat. No. Gnas-3259M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length GNAS (guanine nucleotide binding protein, alpha stimulating) complex locus (Gnas), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
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, which is commonly found in imprinted genes and correlates with transcript expression. This gene has an antisense transcript. One of the transcripts produced from this locus, and the antisense transcript, are both 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. Additional transcript variants have been found for this gene, but the full-length nature and/or biological validity of some variants have not been determined.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	46.1 kDa
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 after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Gnas GNAS (guanine nucleotide binding protein, alpha stimulating) complex locus [<i>Mus musculus</i> (house mouse)]
Official Symbol	Gnas
Synonyms	Gnas; GNAS (guanine nucleotide binding protein, alpha stimulating) complex locus; G; N; P; Ga; Gn; P1; P2; P3; XL; GSP; Gs-; Gsa; Nes; Oed; POH; SCG; GPSA; Nesp; SCG6; Gnas1; Nespl; PHP1A; PHP1B; Gnasxl; Nesp55; Oedsml; Galphas; Oed-Sml; Gs-alpha; 5530400H20Rik; A930027G11Rik; C130027O20Rik; protein ALEX; protein GNAS; protein SCG6 (secretogranin VI); Gs alpha subunit; adenylate cyclase-stimulating G alpha protein; alternative gene product encoded by XL-exon; extra large alphas protein; neuroendocrine secretory protein 55; secretogranin VI; stimulatory G-protein alpha subunit
Gene ID	14683

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mRNA Refseq	NM_201616
Protein Refseq	NP_963910
UniProt ID	P63094

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