

Recombinant Rat GNAS Complex Locus

Cat. No. Gnas-1045R **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Rat
Source	Sf9 Cells
Description	GsaS is the short splice variant of the α -subunit of stimulatory heterotrimeric Gs-proteins. In contrast to the long splice variant (GsaL) GsaS lacks the 15-amino acid insert between the Ras like and the α -helical domain. GsaS activates adenylate cyclase (AC) and possesses a higher GDP-affinity than GsaL. The differences in GDP-binding between GsaS and GsaL have important consequences for receptor/G-protein coupling and activation.
Form	Membrane suspension. Supplied in 75 mM, Tris-HCl, pH 7.4, 12.5 mM MgCl ₂ and 1 mM EDTA.
Usage	For in vitro use only.
Storage	Quality guaranteed for 12 months. Store at -80°C. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name	Gnas GNAS complex locus [<i>Rattus norvegicus</i>]
Synonyms	Gnas; GNAS complex locus; Gnas; Gnas1

 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

Gene ID	24896
mRNA Refseq	NM_001024823
Protein Refseq	NP_001019994
UniProt ID	P63095
Chromosome Location	3q42
Pathway	Calcium signaling pathway; Dilated cardiomyopathy; Gap junction; GnRH signaling pathway; Long-term depression; Melanogenesis; Taste transduction; Vascular smooth muscle contraction
Function	GTP binding; guanyl nucleotide binding; identical protein binding; mu-type opioid receptor binding; nucleotide binding; protein binding; signal transducer activity

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