

GNAS Blocking Peptide (N-Term)
Synthetic peptide
Catalog # BP21831a**Specification****GNAS Blocking Peptide (N-Term) - Product Information**Primary Accession [P63092](#)**GNAS Blocking Peptide (N-Term) - Additional Information****Gene ID 2778****Other Names**

Guanine nucleotide-binding protein G(s) subunit alpha isoforms short, Adenylate cyclase-stimulating G alpha protein, GNAS, GNAS1, GSP

Target/Specificity

The synthetic peptide sequence is selected from aa 71-83 of HUMAN GNAS

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GNAS Blocking Peptide (N-Term) - Protein Information**Name** GNAS**Synonyms** GNAS1, GSP**Function**

Guanine nucleotide-binding proteins (G proteins) function as transducers in

GNAS Blocking Peptide (N-Term) - Background

Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. The G(s) protein is involved in hormonal regulation of adenylate cyclase: it activates the cyclase in response to beta-adrenergic stimuli. Stimulates the Ras signaling pathway via RAPGEF2.

GNAS Blocking Peptide (N-Term) - References

Mattera R., et al. FEBS Lett. 206:36-42(1986).
Harris B.A., et al. Nucleic Acids Res. 16:3585-3585(1988).
Kozasa T., et al. Proc. Natl. Acad. Sci. U.S.A. 85:2081-2085(1988).
Puhl H.L. III, et al. Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.
Kalline N., et al. Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.

numerous signaling pathways controlled by G protein- coupled receptors (GPCRs) (PubMed:17110384). Signaling involves the activation of adenylyl cyclases, resulting in increased levels of the signaling molecule cAMP (PubMed:26206488, PubMed:8702665). GNAS functions downstream of several GPCRs, including beta-adrenergic receptors (PubMed:21488135). Stimulates the Ras signaling pathway via RAPGEF2 (PubMed:12391161).

Cellular Location

Cell membrane

{ECO:0000250|UniProtKB:P63094};

Lipid-anchor

{ECO:0000250|UniProtKB:P63094}

**GNAS Blocking Peptide (N-Term) -
Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)