

Recombinant Full Length Human GNAQ Protein, GST-tagged

Cat. No. GNAQ-5328HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GNAQ full-length ORF (AAH57777, 1 a.a. - 359 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	359 amino acids
Description	Guanine nucleotide-binding proteins are a family of heterotrimeric proteins that couple cell surface, 7-transmembrane domain receptors to intracellular signaling pathways. Receptor activation catalyzes the exchange of GTP for GDP bound to the inactive G protein alpha subunit resulting in a conformational change and dissociation of the complex. The G protein alpha and beta-gamma subunits are capable of regulating various cellular effectors. Activation is terminated by a GTPase intrinsic to the G-alpha subunit. G-alpha-q is the alpha subunit of one of the heterotrimeric GTP-binding proteins that mediates stimulation of phospholipase C-beta (MIM 600230).[supplied by OMIM
Molecular Mass	65.23 kDa
AA Sequence	MTLESIMACCLSEEAKEARRINDEIERQLRRDKRDARRELKLLLLGTGESGKSTFIKQ MRIIHGSGYSDDEKRGFTKL VYQNIFTAMQAMIRAMDTLKIPYKYEHNKAAHAQLVRE VDVEKVS AFENPYVDAIKSLWNDPGIQECYDRRREYQLSDSTKYYLNDLDRVADPA YLPTQQDVL RVRVPTTGII EYPFDLQSVIFRMVDVGGQRSERRKWIHCFENVTSIMFL

 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

VALSEYDQVLVESDNENRMEEKALFRTIITYPWFQNSSVILFLNKKDLLEEKIMYSHL
 VDYFPEYDGPQRDAQAAREFILKMFVDLNPDSDKIIYSHFTCATDTENIRFVFAAVKD
 TILQLNLKEYNLV

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

GNAQ guanine nucleotide binding protein (G protein), q polypeptide [Homo sapiens]

Official Symbol

GNAQ

Synonyms

GNAQ; guanine nucleotide binding protein (G protein), q polypeptide; guanine
 nucleotide-binding protein G(q) subunit alpha; G ALPHA q; GAQ; guanine nucleotide-
 binding protein alpha-q; G-ALPHA-q;

Gene ID

2776

mRNA Refseq

NM_002072

Protein Refseq

NP_002063

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MIM	600998
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UniProt ID	P50148
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