

# Recombinant Full Length Human GNAQ Protein, GST-tagged

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

## SPECIFICATION

<b>Product Overview</b>	Human GNAQ full-length ORF ( AAH57777, 1 a.a. - 359 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	359 amino acids
<b>Description</b>	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
<b>Molecular Mass</b>	65.23 kDa
<b>AA Sequence</b>	MTLESIMACCLSEEAKEARRINDEIERQLRRDKRDARRELKLLLLGTGESGKSTFIKQ MRIIHGSGYSDKRGFTKL VYQNIFTAMQAMIRAMD TLKIPYKYEHNK AHAQLVRE VDVEKVS AFENPYVDAIKSLWNDPGIQECYDRRREYQLSDSTKY LNDLDRVADPA YLPTQQD VLRVRVPTTGII EY PFDLQSVIFRMVDVGGQRSERRKWIHCFENVTSIMFL

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

 Email: [info@creative-biomart.com](mailto: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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<b>MIM</b>	600998
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<b>UniProt ID</b>	P50148
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