

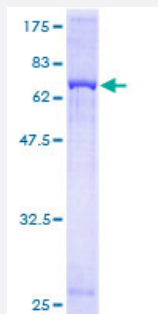
Full-Length

GNAQ (Human) Recombinant Protein (P01)

Catalog # H00002776-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human GNAQ full-length ORF (AAH57777, 1 a.a. - 359 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MTLESIMACCLSEEAKEARRINDEIERQLRRDKRDARRELKLLLLGTGESGKSTFIKQMRIIHGSGY
SDEDKRGFTKL VYQNIFTAMQAMIRAMDTLKIPYKYEHNKAHAQLVREVDVEKVSFAFENPYVDAIK
SLWNDPGIQECYDRRREYQLSDSTKYLNLDLRVADPAYLPTQQDVLVRVPPTTGII EYPFDLQSVI
FRMVDVGGQSRERRKWIHCFENVTSIMFLValseyDQVLVESDNENRMEESKALFRTIITYPWFQ
NSSVILFLNKKDLLEEKIMYSHLVDYFPEYDGPQRDAQAAREFILKMFVDLNPDSDKIYSHFTCAT
DTENIRFVFAAVKDTILQLNLKEYNLV

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

65.23

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

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

Storage Instruction

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

Note

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

Applications

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

Gene Info — GNAQ

Entrez GeneID [2776](#)

GeneBank Accession# [BC057777](#)

Protein Accession# [AAH57777](#)

Gene Name GNAQ

Gene Alias G-ALPHA-q, GAQ

Gene Description guanine nucleotide binding protein (G protein), q polypeptide

Omim ID [600998](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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]

Other Designations -

Pathway

- [Calcium signaling pathway](#)
- [Gap junction](#)
- [GnRH signaling pathway](#)
- [Long-term depression](#)
- [Long-term potentiation](#)
- [Melanogenesis](#)
- [Vascular smooth muscle contraction](#)

Disease

- [Conjunctival Neoplasms](#)
- [Melanoma](#)
- [Melanosis](#)
- [Neoplasms](#)
- [Nevus](#)
- [Thyroid Diseases](#)
- [Uveal Neoplasms](#)