

## Recombinant Human GNAQ, His-tagged

**Cat. No.** GNAQ-8728H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human GNAQ protein, fused to His-tag at N-terminus, was expressed in E.coli.                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | 1-359aa                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | This locus encodes a guanine nucleotide-binding protein. The encoded protein, an alpha subunit in the Gq class, couples a seven-transmembrane domain receptor to activation of phospholipase C-beta. Mutations at this locus have been associated with problems in platelet activation and aggregation. A related pseudogene exists on chromosome 2.  |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 44.5kDa (382aa)                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSMTLESIM ACCLSEEAKE ARRINDEIER<br>QLRRDKRDAR RELKLLLLGT GESGKSTFIK QMRIIHGSGYSDEDKRGFTK<br>LVYQNIFTAM QAMIRAMDTL KIPYKYEHNK AHAQLVREVD VEKVSFENP<br>YVDAIKSLWN DPGIQECYDR RREYQLSDSTKYLLNDLDRV ADPAYLPTQQ<br>DVLRVRVPTT GIIEYPFDLQ SVIFRMVDVG GQRSEERRKWI HCFENVTSIM<br>FLVALSEYDQ VLVESDNENRMEESKALFRT IITYPWFQNS SVILFLNKKD |

 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

|                         |                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | <p>LLEEKIMYSH LVDYFPEYDG PQRDAQAARE FILKMFVDLN PDSDKIIYSH<br/>FTCATDTENIRFVFAAVKDT ILQLNLKEYN LV</p>                                                                                              |
| <b>Purity</b>           | > 90% by SDS - PAGE                                                                                                                                                                               |
| <b>Applications</b>     | SDS-PAGE                                                                                                                                                                                          |
| <b>Storage</b>          | Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.                                                |
| <b>Concentration</b>    | 0.5mg/ml (determined by Bradford assay)                                                                                                                                                           |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                   |
| <b>Gene Name</b>        | GNAQ guanine nucleotide binding protein (G protein), q polypeptide [ Homo sapiens (human) ]                                                                                                       |
| <b>Official Symbol</b>  | GNAQ                                                                                                                                                                                              |
| <b>Synonyms</b>         | GNAQ; GAQ; SWS; CMC1; G-ALPHA-q; guanine nucleotide binding protein (G protein), q polypeptide; guanine nucleotide-binding protein G(q) subunit alpha; guanine nucleotide-binding protein alpha-q |
| <b>Gene ID</b>          | 2776                                                                                                                                                                                              |
| <b>mRNA Refseq</b>      | NM_002072                                                                                                                                                                                         |
| <b>Protein Refseq</b>   | NP_002063                                                                                                                                                                                         |
| <b>MIM</b>              | 600998                                                                                                                                                                                            |

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|----------------------------|--------------------------------------------------------------------------------------------------------|
| <b>UniProt ID</b>          | P50148                                                                                                 |
| <b>Chromosome Location</b> | 9q21                                                                                                   |
| <b>Pathway</b>             | ADP signalling through P2Y purinoceptor 1; Adrenergic signaling in cardiomyocytes; Alzheimer's disease |
| <b>Function</b>            | G-protein beta/gamma-subunit complex binding; G-protein coupled receptor binding; GTP binding          |

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