

## 32-3717: GNAQ Recombinant Protein

### Alternative Name :

Guanine Nucleotide Binding Protein (G Protein),Q Polypeptide, Guanine Nucleotide-Binding Protein Alpha-Q,CMC1,SWS,GAQ,Guanine Nucleotide-Binding Protein G(Q) Subunit Alpha,G-ALPHA-Q,Guanine nucleotide-binding protein G(q) subunit alpha.

### Description

Source : Escherichia Coli. GNAQ Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 382 amino acids (1-359 a.a) and having a molecular mass of 44.5kDa. GNAQ is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. GNAQ, also known as Guanine nucleotide-binding protein belong to the G-alpha family. Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in a variety of transmembrane signaling systems. GNAQ regulates B-cell selection and survival and is essential in order to prevent B-cell-dependent autoimmunity. GNAQ also regulates chemotaxis of BM-derived neutrophils and dendritic cells, in vitro. GNAQ is 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 connected with problems in platelet activation and aggregation. A related pseudogene to GNAQ exists on chromosome 2.

### Product Info

**Amount :** 20 µg

**Purification :** Greater than 90.0% as determined by SDS-PAGE.

**Content :** GNAQ protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M UREA and 10% glycerol.

**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

**Amino Acid :** MGSSHHHHHH SSSLVPRGSH MGSMTLESIM ACCLSEEAKE ARRINDEIER QLRRDKRDAR RELKLLLLGT GESGKSTFIK QMRIHGSYG SDEDKRGFTK LYYQNIFTAM QAMIRAMDTL KIPYKYEHNK AHAQLVREVD VEKVSFENP YVDAIKSLWN DPGIQECYDR RREYQLSDST KYLNDLDRV ADPAYLPTQQ DVLVRVPPT GIIEYPFDLQ SVIFRMVDVG GQRSERRKWI HCFENVTSIM FLValseyDQ VLVESDNENR MEESKALFRT IITYPWFQNS SVILFLNKKD LLEEKIMYSH LVDYFPEYDG PQRDAQAARE FILKMFVDLN PDSDKIIYSH FTCATDTENI RFVFAAVKDT ILQLNLKEYN LV.

