

**GNAQ, 1-359aa, Human, His tag, E.coli**

**Cat.NO.: TP02287**

3th Edition

**Synonyms:**Guanine nucleotide-binding protein G(q) subunit alpha, CMC1, G-ALPHA-q, GAQ, SWS

**Description:**GNAQ is a guanine nucleotide-binding protein. GNAQ, 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. Recombinant human GNAQ protein, fused to His-tag at N-terminus, was expressed in E.coli.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol

**Molecular Weight:**44.5kDa (382aa)

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSM TLESIMACCLSEEAKEARRINDEIERQLRRDKRDARRELKLLLLGTGESGK  
STFIKQMR IIHGSGYSD EDKRGFTKLVYQNIFTAMQAMIRAMDTLKIPYKYEHNKAHAQLVREVDVEKVS AFENPYV  
DAIKSLWNDPGIQECYDRRREYQLSDSTKYYLNDLDRVADPAYLPTQQDVL RVRVPTTGII EYPFDLQSVIFRMVDV  
GGQSRERRKWIHCFENVTSIMFLValseyDQVLVESDNENRMEESKALFRTIITYPWFQNSSVILFLNKKDLLEEKIM  
YSHLVDYFPEYDGPQRDAQAAREFILKMFVDLNPDSKIIYSHFTCATDTENIRFVFAAVKDTILQLNLKEYNLV

**Purity:**> 95% by HPLC

**Concentration:**0.5mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.