

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:

MGSSHHHHHSSGLVPRGSHMGSM TLESIMACCLSEEAKEARRINDEIERQLRRDKRDARRELKLLLLGTGESGK
STFIKQMR IIHGSGYSD EDKRGFTKLVYQNIFTAMQAMIRAMD TLKIPYKYEHNKAHAQLVREVDVEKVS AFENPYV
DAIKSLWNDPGIQECYDRRREYQLSDSTKY YLNDLDRVADPAYLPTQQDVL RVRVPTTGII EYPFDLQSVIFRMVDV
GGQRSE RRKWIHCFENVT SIMFLV ALSEYDQVLVESDNENRMEESKALFR TIITYPWFQNSSVILFLNKKDLLEEKIM
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.