Recombinant human GNAQ protein

Catalog Number: ATGP2798

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-359aa

UniProt No.
P50148

NCBI Accession No.
NP_002063

Alternative Names
Guanine nucleotide-binding protein G(q) subunit alpha, CMC1, G-ALPHA-q, GAQ, SWS

PRODUCT SPECIFICATION

Molecular Weight
44.5 kDa (382aa)

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M uREA, 10% glycerol

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE,Denatured

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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 phospolipase 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.

Amino acid Sequence
MGSSHHHHHH SSGLVPRGSH MGSMTLESIM ACCLSEEAKE ARRINDEIER QLRRDKRDAR RELKLLLLGT GESGKSTFIK

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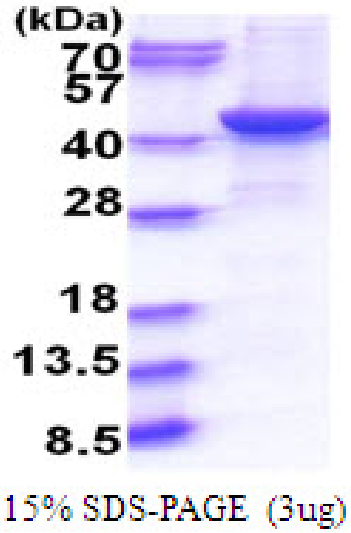
QMRIIHGSGY SDEDKRGFTK LVYQNIFTAM QAMIRAMDTL KIPYKYEHNK AHAQLVREVD VEKVSAFENP YVDAIKSLWN DPGIQECYDR RREYQLSDST KYYLNDLDRV ADPAYLPTQQ DVLRVRVPTT GIIEYPFDLQ SVIFRMVDVG GQRSERRKWI HCFENVTSIM FLVALSEYDQ VLVESDNENR MEESKALFRT IITYPWFQNS SVILFLNKKD LLEEKIMYSH LVDYFPEYDG PQRDAQAARE FILKMFVDLN PDSDKIIYSH FTCATDTENI RFVFAAVKDT ILQLNLKEYN LV

General References

Mudhar,H.S, et al. (2013) Br J Ophthalmol 97 (7), 924-928
Chishiki,K., et al. (2013) Biochem. Biophys. Res. Commun. 435 (3), 414-419

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.