

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 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.

Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGSMTLESIM ACCLSEEAKE ARRINDEIER QLRRDKRDAR RELKLLLLGT GESGKSTFIK

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QMRIIHGSGY SDEDKRGFTK LVYQNIFTAM QAMIRAMDTL KIPYKYEHNK AHAQLVREVD VEKVSFENP YVDAIKSLWN
DPGIQECYDR RREYQLSDST KYLNDLDRV ADPAYLPTQQ DVLRVRVPTT GIIEYPFDLQ SVIFRMVDVG GQRSEKRWI
HCFENVTSIM FLVASEYDQ VLVEDNENR MEESKALFRT IITYPWFQNS SVILFLNKKD LLEEKIMYSH LVDYFPEYDG
PQRDAQAARE FILKMFVDLN PDSDKIYSH FTCATDTENI RFVFAAVKDT ILQLNLKEYN LV

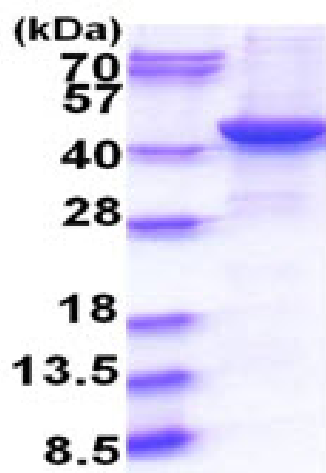
General References

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.

15% SDS-PAGE (3ug)