

# Recombinant human GNAI2 protein

Catalog Number: ATGP1720

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-355aa

### UniProt No.

P04899

### NCBI Accession No.

NP\_002061

### Alternative Names

Guanine nucleotide-binding protein G(i) subunit alpha-2, GIP, GNAI2B, H\_LuCA15.1, H\_LuCA16.1

## PRODUCT SPECIFICATION

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### Molecular Weight

42 kDa (375aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### 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

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### Description

GNAI2 is an alpha subunit of guanine nucleotide binding proteins (G proteins). The protein contains the guanine nucleotide binding site and is involved in the hormonal regulation of adenylate cyclase. Several transcript variants encoding different isoforms have been detected for this gene, but the full-length nature of only two are known so far. Recombinant human GNAI2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

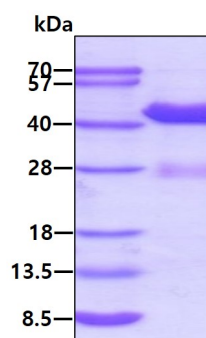
<MGSSHHHHHH SSGLVPRGSH> MGCTVSAEDK AAAERSKMID KNLREDGEKA AREVKLLLLG AGESGKSTIV  
KQMKIIHEDG YSEEECRQYR AVVYSNTIQS IMAIVKAMGN LQIDFADPSR ADDARQLFAL SCTAEEQGV L PDDL SGVIRR  
LWADHGVQAC FGRSREYQLN DSAAYYLNDL ERIAQSDYIP TQQDVL RTRV KTTGIVETHF TFKDLHFKMF DVGGQRSERK  
KWIHCFEGVT AIIFCVALSA YDLVLAEDDEE MNRMHESMKL FDSICNNKWF TDTSIILFLN KKDLFEEKIT HSPLTICFPE  
YTGANKYDEA ASYIQSKFED LNKRKDTKEI YTHFTCATDT KNVQFVFDV TDVVIKNNLK DCGLF

## General References

Magovcevic I, Ang SL, et al. (1992). Genomics. 12(1):125-9.  
Damaj BB, McColl SR, et al. (1996). FASEB J. Oct  
10(12):1426-34.

## DATA

### SDS-PAGE



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