

# Recombinant human GNAI1 protein

Catalog Number: ATGP1224

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-354aa

### UniProt No.

P63096

### NCBI Accession No.

NP\_002060.4

### Alternative Names

Guanine nucleotide-binding protein G(i) subunit alpha, Gi

## PRODUCT SPECIFICATION

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### Molecular Weight

42.7 kDa (377aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

### Purity

> 95% 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

GNAI1, also known as guanine nucleotide-binding protein G (i) subunit alpha, functions to relay information from cell surface receptors to intracellular effectors. Also this protein functions to open atrial potassium channels. Recombinant human GNAI1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

### Amino acid Sequence

<MGSSHHHHHH SGLVPRGSH MGS>MGCTLSA EDKAAVERSK MIDRNLREDG EKAAREVKLL LLGAGESGKS

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TIVKQMKIIH EAGYSEEECK QYKAVVYSNT IQSIIAIRA MGRLEKIDFGD SARADDARQL FVLGAAEEG FMTAELAGVI  
KRLWKDSGVQ ACFNRSREYQ LNSAAYYLN DLDRIAQPNY IPTQQDVLRT RVKTTGIVET HFTFKDLHFK MFDVGGQRSE  
RKKWIHCFCFEG VTAIIFCVL SDYDLVLAED EEMNRMHESM KLFDSICNNK WFTDTSIILF LNKKDLFEEL IKKSPLTICY  
PEYAGSNTYE EAAAYIQCF EDLNKRKDTK EIYHFTCAT DTKNVQFVFD AVTDVVIKNN LKDCGLF

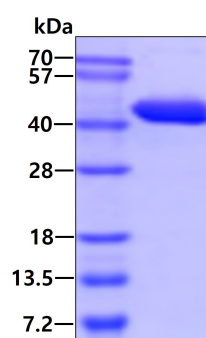
## General References

Jones D.T. et al. (1990) J Biol Chem. 265: 2671-2676.

Simon M.I. et al. (1991) Science 252: 802-808.

## DATA

### SDS-PAGE



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