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Recombinant human GNAI3 protein

Catalog Number: ATGP1486

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-354aa

UniProt No.

P08754

NCBI Accession No.

NP 006487

Alternative Names

Guanine nucleotide-binding protein G(k) subunit alpha, 87u6

PRODUCT SPECIFICATION

Molecular Weight

43 kDa (377aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 100mM NaCl

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

Description

GNAI3 belongs to the G-alpha family and G (i/o/t/z) subfamily. Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. G (k) is the stimulatory G protein of receptor-regulated K+ channels. The active GTP-bound form prevents the association of RGS14 with centrosomes and is required for the translocation of RGS14 from the cytoplasm to the plasma membrane. This protein plays a role in cell division. GNAI3 has been shown to interact with RGS14, RIC8A, RGS18, S1PR1, RGS12, RGS16, RGS19, RGS10 and RGS5. Recombinant human GNAI3 protein, fused to His-tag at N-terminus, was



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expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

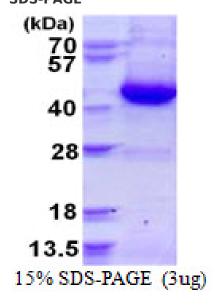
MGSSHHHHHH SSGLVPRGSH MGSMGCTLSA EDKAAVERSK MIDRNLREDG EKAAKEVKLL LLGAGESGKS TIVKQMKIIH EDGYSEDECK QYKVVVYSNT IQSIIAIIRA MGRLKIDFGE AARADDARQL FVLAGSAEEG VMTPELAGVI KRLWRDGGVQ ACFSRSREYQ LNDSASYYLN DLDRISQSNY IPTQQDVLRT RVKTTGIVET HFTFKDLYFK MFDVGGQRSE RKKWIHCFEG VTAIIFCVAL SDYDLVLAED EEMNRMHESM KLFDSICNNK WFTETSIILF LNKKDLFEEK IKRSPLTICY PEYTGSNTYE EAAAYIQCQF EDLNRRKDTK EIYTHFTCAT DTKNVQFVFD AVTDVIIKNN LKECGLY

General References

Cho H., et al. (2007) J. Cell Biol. 178:245-255 Jones, D.T., et al. (1990) J. Biol. Chem. 265: 2671-2676.

DATA





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

