

Product information



GNAI3, 1-354aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1486

Full name: Guanine nucleotide-binding protein G(k) subunit alpha

NCBI Accession No.: NP_006487

Synonyms: 87U6

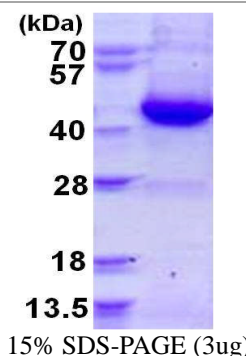
Description: GNAI3 belongs to the G-alpha family and G (*i/o/t/z*) subfamily. Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. G(k) is the stimulatory G protein of receptor-regulated K⁺ channels. The active GTP-bound 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 expressed in *E.coli* and purified by using conventional chromatography techniques.

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

Molecular Weight: 43.0kDa (377aa), confirmed by MALDI-TOF

Purity: > 90% by SDS - PAGE

Concentration: 0.5mg/ml (determined by Bradford assay)



Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MGS MGCTLSA EDKAAVERSK MIDRNLRDGE EKA AKEVKLL LLGAGESGKS TIVKQMKI IH EDGYSEDECK
QYKVVVYSNT IQSIIA IIRA MGR LKIDFGE AARADDARQL FVLGSAEEG VMTPELAGVI KRLWRDGGVQ ACF SRSREYQ LND SASYL N
DLDRISQSNY IPTQQDVLRT RVKTTGIVET HFTFKDLYFK MFDVGGQRSE RKKWIHC FEG VTA IIFCV AL SDYDLVLAED EEMNRMHESM
KLFDSICNNK WFTETS IILF LNKKDLFE EK IKRSPLTICY PEYTSNTYE EAAAYIQ CQF EDLNRRKDTK EIYHFTCAT DTKNVQFVFD
AVTDV I IKN N 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.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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