

Recombinant Human GNAI3 protein, His-tagged

Cat. No. GNAI3-382H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GNAI3 (1-354aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-354 a.a.
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 ⁺ General references: 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 100mM NaCl
Molecular Mass	43.0kDa (377aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSQYKVVVYSNT IQSIIAIRA MGRLKIDFGE AARADDARQL FVLGSAEEG VMTPELAGVI KRLWRDGGVQ ACFSRSREYQ

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LNDSASYLNMGCTLSA EDKAAVERSK MIDRNLREDG EKAAKEVKLL
 LLGAGESGKS TIVKQMKIIH EDGYSEDECKDLDRISQSNY IPTQQDVLRT
 RVKTTGIVET HFTFKDLYFK MFDVGGQRSE RKKWIHCFEG VTAIIFCVAL
 SDYDLVLAED EEMNRMHESMKLFDSICNNK WFTETSILF LNKKDLFEEL
 IKRSPLTICY PEYTGSENTYE EAAAYIQCQF EDLNRRKDTK EIYTHFTCAT
 DTKNVQFVFDAVTDVVIKNN LKECGLY

Purity > 90% by SDS - PAGE

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

Concentration 0.5mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name GNAI3 guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 3 [Homo sapiens]

Official Symbol GNAI3

Synonyms 87U6; ARCND1; guanine nucleotide-binding protein G(k) subunit alpha; g(i) alpha-3

Gene ID 2773

mRNA Refseq NM_006496

Protein Refseq NP_006487

MIM 139370

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UniProt ID	P08754
Chromosome Location	1p13
Pathway	ADP signalling through P2Y purinoceptor 12, organism-specific biosystem; Activation of GABAB receptors, organism-specific biosystem; Adrenergic signaling in cardiomyocytes, organism-specific biosystem
Function	G-protein beta/gamma-subunit complex binding; GTP binding; GTPase activity

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