

## Recombinant Human GNAI3 protein, His-tagged

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

### SPECIFICATION

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

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LNDSASYLNMGCTLSA EDKAAVERSK MIDRNLREDG EKAAKEVKLL  
 LLGAGESGKS TIVKQMKIIH EDGYSEDECKDLDRISQSNY IPTQQDVLRT  
 RVKTTGIVET HFTFKDLYFK MFDVGGQRSE RKKWIHC FEG VTAIIFCVAL  
 SDYDLVLAED EEMNRMHESMKLFDSICNNK WFTETSILF LNKKDLFE EK  
 IKRSPLTICY PEYTG SNTYE EAAAYIQ CQF EDLNR RKDTK EIYTHFTCAT  
 DTKNVQFVFD AVTDV IIKNN 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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<b>UniProt ID</b>	P08754
<b>Chromosome Location</b>	1p13
<b>Pathway</b>	ADP signalling through P2Y purinoceptor 12, organism-specific biosystem; Activation of GABAB receptors, organism-specific biosystem; Adrenergic signaling in cardiomyocytes, organism-specific biosystem
<b>Function</b>	G-protein beta/gamma-subunit complex binding; GTP binding; GTPase activity

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