

# Recombinant Human Guanine Nucleotide Binding Protein (G Protein), Alpha Z Polypeptide, His-tagged

Cat. No. GNAZ-7159H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human GNAZ protein, fused to His-tag at N-terminus, was expressed in E. coli. MW: 43.0 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-355aa
<b>Description</b>	Guanine nucleotide-binding protein G(z) subunit alpha, also known as GNAZ, is a member of a G protein subfamily that mediates signal transduction in pertussis toxin-insensitive systems. This protein may play a role in maintaining the ionic balance of perilymphatic and endolymphatic cochlear fluids.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol.
<b>Molecular Mass</b>	43.0 kDa (375aa)
<b>AA Sequence</b>	MGSSHHHHHH SGLVPRGSH MGCQRSSEK EAARRSRID RHLRSESQRQ RREIKLLLLG TSNSGKSTIV KQMKIHS GG FNLEACKEYK PLIYNAIDS LTRIIRALAA LRIDFHNPD R AYDAVQLFAL TGPAESKGEI TPELLGVMRR LWADPGAQAC FRSSEYHLE DNAAYLNDL ERIAADYIP TVEDILRSRD MTTGIVENKF TFKELTFKMV DVGGQRSEK KWIHCFEGVT AIIFCVELSG YDLKLYEDNQ TSRMAESLRL FDSICNNWF INTSLILFLN KKDLLAEKIR

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RIPLTICFPE YKGQNTYEEA AVYIQRQFED LNRNKETKEI YSHFTCATDT  
SNIQFVFDVAV TDVIIQNNLK YIGLC

**Purity** >90% by SDS - PAGE

**Applications** SDS-PAGE

**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.

**Concentration** 1 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** GNAZ guanine nucleotide binding protein (G protein), alpha z polypeptide [ Homo sapiens ]

**Official Symbol** GNAZ

**Synonyms** GNAZ; guanine nucleotide binding protein (G protein), alpha z polypeptide; guanine nucleotide-binding protein G(z) subunit alpha; gz-alpha; g(x) alpha chain; transducin alpha;

**Gene ID** 2781

**mRNA Refseq** NM\_002073

**Protein Refseq** NP\_002064

**MIM** 139160

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<b>UniProt ID</b>	P19086
<b>Chromosome Location</b>	22q11.1-q11.2
<b>Pathway</b>	Calcium Regulation in the Cardiac Cell, organism-specific biosystem; G Protein Signaling Pathways, organism-specific biosystem; G alpha (i) signalling events, organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; G alpha (z) signalling events, organism-specific biosystem; G-protein activation, organism-specific biosystem; G-protein mediated events, organism-specific biosystem;
<b>Function</b>	G-protein beta/gamma-subunit complex binding; G-protein coupled serotonin receptor binding; GTP binding; GTPase activity; guanyl nucleotide binding; guanyl-nucleotide exchange factor activity; metal ion binding; nucleotide binding; phosphatidylinositol phospholipase C activity; receptor signaling protein activity; signal transducer activity;

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