

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

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

SPECIFICATION

Product Overview	Recombinant human GNAZ protein, fused to His-tag at N-terminus, was expressed in E. coli. MW: 43.0 kDa.
Species	Human
Source	E.coli
ProteinLength	1-355aa
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol.
Molecular Mass	43.0 kDa (375aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGCRQSSEK EAARRSRRID RHLRSESQRQ RREIKLLLLG TSNSGKSTIV KQMKIHS GG FNLEACKEYK PLIYNAIDS LTRIIRALAA LRIDFHNPD R AYDAVQLFAL TGPAESKGEI TPELLGVMRR LWADPGAQAC FSRSEYHLE DNAAYYLN DL ERIAADYIP TVEDILRSRD MTTGIVENKF TKELTFKMV DVGGQRSEK KWIHCFEGVT AIIFCVELSG YDLKLYEDNQ TSRMAESLRL FDSICNNWF INTSLILFLN KKDLLAEKIR

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	RIPLTICFPE YKGQNTYEEA AVYIQRQFED LNRNKETKEI YSHFTCATDT SNIQFVFDAV 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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UniProt ID	P19086
Chromosome Location	22q11.1-q11.2
Pathway	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;
Function	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;