

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 KQMKIIHSGG FNLEACKEYK PLIIYNAIDS LTRIIRALAA LRIDFHNPDY AYDAVQLFAL TGPAESKGEI TPELLGVMRR LWADPGAQAC FSRSEYHLE DNAAYYLNLD ERIAADYIP TVEDILRSRD MTTGIVENKF TKELTFKMV DVGGQRSEK KWIHCFEGVT AIIFCVELSG YDLKLYEDNQ TSRMAESLRL FDSICNNWF INTSLILFLN KKDLLAEKIR

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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;