
Product Data Sheet

Product Name: GNAZ Human
 Cat. No.: GP23573
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Guanine Nucleotide Binding Protein (G Protein) Alpha Z Polypeptide; G(X) Alpha Chain; Guanine Nucleotide-Binding Protein G(Z) Subunit Alpha; Gz-Alpha; Transducin Alpha.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGCRQSSEK EAARRRRID RHLRSESQRQ RREIKLLLLG TSNSGKSTIV KQMKIIHSGG FNLEACKEYK PLIYNAIDS LTRIIRALAA LRIDFHNPDR AYDAVQLFAL TGPAESKGEI TPELLGVMRR LWADPGAQAC FSRSEYHLE DNAAYLNDL ERIAAADYIP TVEDILRSRD MTTGIVENKF TFKELTFKMV DVGGQRSERK KWIHCFEGVT AIIFCVELSG YDLKLYEDNQ TSRMAESLRL FDSICNNWF INTSLILFLN KKDLLAEKIR RIPLTICFPE YKGQNTYEEA AVYIQRQFED LNRNKETKEI YSHFTCATDT SNIQVFDAV TDVIIQNNLK YIGLC		
Formulation	The GNAZ solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

Guanine nucleotide-binding protein G(z) subunit alpha (GNAZ) belongs to the G protein subfamily which mediates signal transduction in pertussis toxin-insensitive systems. GNAZ has a role in maintaining the ionic balance of perilymphatic and endolymphatic cochlear fluids. G proteins are involved as modulators or transducers in a variety of transmembrane signaling systems.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

GNAZ Human Recombinant produced in E. coli is a single polypeptide chain containing 375 amino acids (1-355) and having a molecular mass of 43.0 kDa. GNAZ is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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