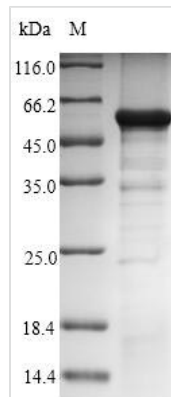




Recombinant Human Guanine nucleotide-binding protein G (z) subunit alpha (GNAZ)

Product Code	CSB-EP009601HU
Relevance	Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems.
Abbreviation	Recombinant Human GNAZ protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P19086
Alias	G(x) alpha chain Gz-alpha
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	GCRQSSEEKEAARRSRRIDRHLRSESQRQRREIKLLLLGTSNSGKSTIVKQMKI IHSGGFNLEACEKEYKPLIYNAIDSLTRIIRALAAALRIDFHNPDRAVDVQLFALTG PAESKGEITPELLGVMRRLWADPGAQACFSRSSEYHLEDNAAYYLNDLERIAA ADYIPTVEDILRSRDMTTGIVENKFTFKELTFKMVDVGGQRSEKRWIHCFCFEGV TAIIFCVELSGYDLKLYEDNQTSRMAESLRLFDSICNNWNWFINTSLILFLNKKDLL AEKIRRIPLTICFPEYKQGQNTYEEAAVYIQRQFEDLNRNKETKEIYSHFTCATDT SNIQFVFDAVTDVIIQNNLKYIGLC
Research Area	Signal Transduction
Source	E.coli
Target Names	GNAZ
Protein Names	Recommended name: Guanine nucleotide-binding protein G(z) subunit alpha Alternative name(s): G(x) alpha chain Gz-alpha
Expression Region	2-355aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	56.8kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Amino acids 2-355 constitute the expression domain of recombinant Human GNAZ. The calculated molecular weight for this GNAZ protein is 56.8 kDa. The GNAZ protein was expressed in e.coli. The GNAZ gene fragment has been modified by fusing the N-terminal 6xHis-SUMO tag, providing convenience in detecting and purifying the recombinant GNAZ protein during the following stages.

The human guanine nucleotide-binding protein G(z) subunit alpha (GNAZ) is a member of the G protein subunit alpha z family. GNAZ is involved in transmitting signals from G protein-coupled receptors (GPCRs) to intracellular effector proteins. It plays a role in regulating adenylate cyclase activity, modulating the levels of intracellular cyclic AMP (cAMP). The dynamic regulation of cAMP is crucial for various cellular processes, including cell signaling, metabolism, and neurotransmission. GNAZ's involvement in GPCR signaling highlights its significance in mediating responses to extracellular stimuli and its potential impact on various physiological and pathological conditions.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.