
Product Data Sheet

Product Name: GNAQ Human

Cat. No.: GP23363

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Guanine Nucleotide Binding Protein (G Protein); Q Polypeptide; Guanine Nucleotide-Binding Protein Alpha-Q; CMC1; SWS; GAQ; Guanine Nucleotide-Binding Protein G(Q) Subunit Alpha; G-ALPHA-Q; Guanine nucleotide-binding protein G(q) subunit alpha.		
Amino Acid Sequence	MGSSHHHHH SSGLVPRGSH MGSMTLESIM ACCLSEEAKE ARRINDEIER QLRRDKRDAR RELKLLLLGTGESGKSTFIK QMRIHGSY SDEDKRGFTK LVYQNIPTAM QAMIRAMDTL KIPYKYEHNK AHAQLVREVDVEKVSFENP YVDAIKSLWN DPGIQECYDR RREYQLSDSTKYLLNDLDRV ADPAYLPTQQ DVLVRVPTT GIIEYFDLQ SVIFRMVDVGGQRSERRKWI HCFENVTSIM FLValseyDQ VLVESDNENR MEESKALFRT IITYPWFQNS SVILFLNKKDLLEEKIMYSH LVDYFPEYDG PQRDAQAARE FILKMFVDLN PDSKIIYSH FTCATDTENIRFVFAAVKDT ILQLNLKEYN LV.		
Formulation	GNAQ protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M UREA and 10% glycerol.		

Introduction

GNAQ, also known as Guanine nucleotide-binding protein belong to the G-alpha family. Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in a variety of transmembrane signaling systems. GNAQ regulates B-cell selection and survival and is essential in order to prevent B-cell-dependent autoimmunity. GNAQ also regulates chemotaxis of BM-derived neutrophils and dendritic cells, in vitro. GNAQ is an alpha subunit in the Gq class, couples a seven-transmembrane domain receptor to activation of phospholipase C-beta. Mutations at this locus have been connected with problems in platelet activation and aggregation. A related pseudogene to GNAQ exists on chromosome 2.

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

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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.

Background

GNAQ Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 382 amino acids (1-359 a.a) and having a molecular mass of 44.5kDa. GNAQ is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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