9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

GNAQ Human

Guanine Nucleotide Binding Protein Human Recombinant
RCP0937

Product Overview

Name	GNAQ Human
Description	
Guanine Nucleotide Binding Protein Human Recombinant	
Accession (Primary)	P50148
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.	
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 phospolipase 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 .	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered clear solution.	
Formulation	
GNAQ protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M UREA and 10% glycerol.	
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.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	
Amino acid sequence	

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MGSSHHHHHH SSGLVPRGSH MGS MTLESIM ACCLSEEAKE ARRINDEIER QLRRDKRDAR RELKLLLLGT GESGKSTFIK QMRIIHGSGY SDEDKRGFTK LVYQNIFTAM QAMIRAMDTL KIPYKYEHNK AHAQLVREVD VEKVSAFENP YVDAIKSLWN DPGIQECYDR RREYQLSDST KYYLNDLDRV ADPAYLPTQQ DVLRVRVPTT GIIEYPFDLQ SVIFRMVDVG GQRSERRKWI HCFENVTSIM FLVALSEYDQ VLVESDNENR MEESKALFRT IITYPWFQNS SVILFLNKKD LLEEKIMYSH LVDYFPEYDG PQRDAQAARE FILKMFVDLN PDSDKIIYSH FTCATDTENI RFVFAAVKDT ILQLNLKEYN LV.

Precautions

GNAQ Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P50148)