

Recombinant Human GNAQ, His-tagged

Cat. No. GNAQ-8728H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human GNAQ protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-359aa
Description	This locus encodes a guanine nucleotide-binding protein. The encoded protein, 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 associated with problems in platelet activation and aggregation. A related pseudogene exists on chromosome 2.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol
Molecular Mass	44.5kDa (382aa)
AA Sequence	MGSSHHHHHH SGLVPRGSH MGSMTLESIM ACCLSEEAKE ARRINDEIER QLRRDKRDAR RELKLLLLGT GESGKSTFIK QMRIHGGSGYSDCKRGFTK LVYQNIFTAM QAMIRAMDTL KIPYKYEHNK AHAQLVREVD VEKVSFENP YVDAIKSLWN DPGIQECYDR RREYQLSDSTKYLLNDLDRV ADPAYLPTQQ DVLRVRVPTT GIIEYFDLQ SVIFRMVDVG GQRSERRKWI HCFENVTSIM FLValseyDQ VLVESDNENRMEESKALFRT IITYPWFQNS SVILFLNKKD

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LLEEKIMYSH LVDYFPEYDG PQRDAQAARE FILKMFVDLN PDSDKIYSH
FTCATDTENIRFVFAAVKDT ILQLNLKEYN LV

Purity > 90% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.5mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [GNAQ guanine nucleotide binding protein \(G protein\), q polypeptide \[Homo sapiens \(human\) \]](#)

Official Symbol GNAQ

Synonyms GNAQ; GAQ; SWS; CMC1; G-ALPHA-q; guanine nucleotide binding protein (G protein), q polypeptide; guanine nucleotide-binding protein G(q) subunit alpha; guanine nucleotide-binding protein alpha-q

Gene ID [2776](#)

mRNA Refseq [NM_002072](#)

Protein Refseq [NP_002063](#)

MIM [600998](#)

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UniProt ID	P50148
Chromosome Location	9q21
Pathway	ADP signalling through P2Y purinoceptor 1; Adrenergic signaling in cardiomyocytes; Alzheimer's disease
Function	G-protein beta/gamma-subunit complex binding; G-protein coupled receptor binding; GTP binding

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