

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 SSGLVPRGSH MGSMTLESIM ACCLSEEAKE ARRINDEIER QLRRDKRDAR RELKLLLLGT GESGKSTFIK QMRIIHGSGYSDEDKRGFTK LVYQNIFTAM QAMIRAMDTL KIPYKYEHNK AHAQLVREVD VEKVSFENP YVDAIKSLWN DPGIQECYDR RREYQLSDSTKY LNDLDRV ADPAYLPTQQ DVL RVRVPTT GIIEYPFDLQ SVIFRMVDVG GQRSEERRKWI HCFENVTSIM FLValseyDQ VLVESDNENRMEESKALFRT IITYPWFQNS SVILFLNKKD

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	LLEEKIMYSH LVDYFPEYDG PQRDAQAARE FILKMFVDLN PDSDKIIYSH 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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