

Recombinant Full Length Human GNAQ Protein, C-Flag-tagged

Cat. No. GNAQ-1109HFL Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Full Length Human GNAQ Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.

Species Human

Source Mammalian Cells

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 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

Molecular Mass 42 kDa

AA Sequence

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MTLESIMACCLSEEAKEARRINDEIERQLRRDKRDARRELKLLLLGTGESGKSTFIKQ
MRIIHGSGYSDE DKRGFTKLVYQNIFTAMQAMIRAMDTLKIPYKYEHNKAHAQLVRE
VDVEKVSFAFENPYVDAIKSLWNDPG IQECYDRRREYQLSDSTKYLLNDLDRVADPA
YLPTQQDVLVRVPTTGIIEYPFDLQSVIFRMVDVGGQR SERRKWIHCFENVTSIMF
LVALUEYDQVLVESDNENRMEESKALFRTIITYPWFQNSSVILFLNKKDLLE EKIMYS
HLVDYFPEYDGPQRDAQAAREFILKMFVDLNPDSDKIIYSHFTCATDTENIRFVFAAV
KDTILQ
LNLKEYNLVTRTRPLEQKLISEEDLAANDILDYKDDDDKV
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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Alzheimer's disease, Calcium signaling pathway, Gap junction, GnRH signaling pathway, Huntington's disease, Long-term depression, Long-term potentiation, Melanogenesis, Vascular smooth muscle contraction
Full Length	Full L.

GENE INFORMATION

Gene Name	GNAQ G protein subunit alpha q [Homo sapiens (human)]
Official Symbol	GNAQ
Synonyms	GAQ; SWS; CMC1; G-ALPHA-q
Gene ID	2776
mRNA Refseq	NM_002072.5

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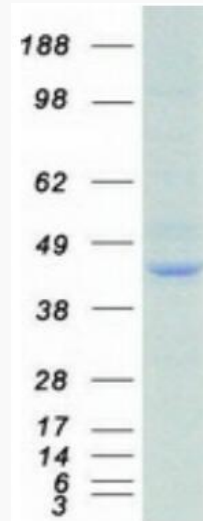
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Protein Refseq NP_002063.2

MIM 600998

UniProt ID P50148



Coomassie blue staining of purified GNAQ protein.

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