Recombinant Full Length Human GNA11 Protein, C-Flag-tagged

Cat. No. GNA11-1479HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GNA11 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene belongs to the family of guanine nucleotide-binding proteins (G proteins), which function as modulators or transducers in various transmembrane signaling systems. G proteins are composed of 3 units: alpha, beta and gamma. This gene encodes one of the alpha subunits (subunit alpha-11). Mutations in this gene have been associated with hypocalciuric hypercalcemia type II (HHC2) and hypocalcemia dominant 2 (HYPOC2). Patients with HHC2 and HYPOC2 exhibit decreased or increased sensitivity, respectively, to changes in extracellular calcium concentrations.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	41.9 kDa
AA Sequence	MTLESMMACCLSDEVKESKRINAEIEKQLRRDKRDARRELKLLLLGTGESGKSTFIK QMRIIHGAGYSEE DKRGFTKLVYQNIFTAMQAMIRAMETLKILYKYEQNKANALLIRE VDVEKVTTFEHQYVSAIKTLWEDPG IQECYDRRREYQLSDSAKYYLTDVDRIATLGY LPTQQDVLRVRVPTTGIIEYPFDLENIIFRMVDVGGQR SERRKWIHCFENVTSIMFLV

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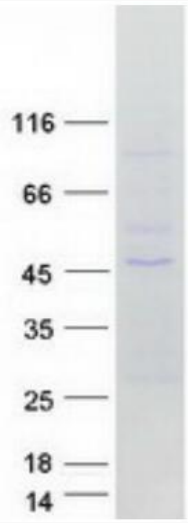
	ALSEYDQVLVESDNENRMEESKALFRTIITYPWFQNSSVILFLNKKDLLE DKILYSHL VDYFPEFDGPQRDAQAAREFILKMFVDLNPDSDKIIYSHFTCATDTENIRFVFAAVKD TILQ LNLKEYNLVTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product 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 Pathways	Calcium signaling pathway, Gap junction, GnRH signaling pathway, Long-term depression, Vascular smooth muscle contraction
Full Length	Full L.

GENE INFORMATION

Gene Name	GNA11 G protein subunit alpha 11 [Homo sapiens (human)]
Official Symbol	GNA11
Synonyms	FBH; FBH2; FHH2; HG1K; HHC2; GNA-11; HYPOC2
Gene ID	2767

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mRNA Refseq	NM_002067.5
Protein Refseq	NP_002058.2
MIM	139313
UniProt ID	P29992



Coomassie blue staining of purified GNA11 protein.

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