

Recombinant Human GNAI2, His-tagged

Cat. No. GNAI2-28964TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 3-366 of Human G protein alpha Inhibitor 2 with N terminal His tag; 364 amino acids, 49kDa. GenBank: AAT78421.1.
Species	Human
Source	E.coli
ProteinLength	3-366 a.a.
Description	The protein encoded by this gene is an alpha subunit of guanine nucleotide binding proteins (G proteins). The encoded protein contains the guanine nucleotide binding site and is involved in the hormonal regulation of adenylate cyclase. Several transcript variants encoding different isoforms have been detected for this gene, but the full-length nature of only two are known so far.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 132 µl aqua dest.
Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Store at 4°C. Upon reconstitution store at -80oC.

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Sequences of amino acids

CTVSAEDKAAAERSKMIDKNLREDGEKAAREVKLLLLGAG ESGKSTIVKQMKIIHED
 GYSEEECRQYRAVVYSNTIQS IMAIVKAMGNLQIDFADPSRADDARQLFALSCTAAE
 QGVL PDDLSGVIRRLWADHGVQACFGRSREYQLNDSAAYYLN DLERIAQSDYIPT
 QQDVLRLTRVKTGTGIVETHFTFKDLH FKMFDVGGQRSERKKWIHCFCFEGVTAIIFCVAL
 SAYDLVLA EDEEMNRMHESMKLFDSICNNKWFTDTSIILFLNKKDL FEEKITHSPLTI
 CFPEYTGANKYDEAASYIQSKFEDLN KRKDTKEIYTHFTCATDTKSRKLFRETYLKLS
 GPDQHPHP SPAPAPPLSSDSVP

Sequence Similarities

Belongs to the G-alpha family. G(i/o/t/z) subfamily.

Full Length

Full L.

GENE INFORMATION

Gene Name

GNAI2 guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2 [Homo sapiens]

Official Symbol

GNAI2

Synonyms

GNAI2; guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2; GNAI2B; guanine nucleotide-binding protein G(i) subunit alpha-2; GIP; GTP binding regulatory protein Gi alpha 2 chain;

Gene ID

2771

mRNA Refseq

NM_001166425

Protein Refseq

NP_001159897

MIM

139360

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Uniprot ID	P04899
Chromosome Location	3p21.31
Pathway	ADP signalling through P2Y purinoceptor 12, organism-specific biosystem; Activation of GABAB receptors, organism-specific biosystem; Adenylate cyclase inhibitory pathway, organism-specific biosystem; Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem;
Function	G-protein beta/gamma-subunit complex binding; G-protein coupled receptor binding; GTP binding; GTPase activity; GTPase activity;

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