

Recombinant Full Length Human GNAI1 Protein, GST-tagged

Cat. No. GNAI1-5322HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview Human GNAI1 full-length ORF (AAH26326, 1 a.a. - 354 a.a.) recombinant protein with GST-tag at N-terminal.

Species Human

Source In Vitro Cell Free System

ProteinLength 354 amino acids

Description

Guanine nucleotide-binding proteins (G proteins) form a large family of signal-transducing molecules. They are found as heterotrimers made up of alpha, beta, and gamma subunits. Members of the G protein family have been characterized most extensively on the basis of the alpha subunit, which binds guanine nucleotide, is capable of hydrolyzing GTP, and interacts with specific receptor and effector molecules. The G protein family includes Gs (MIM 139320) and Gi, the stimulatory and inhibitory GTP-binding regulators of adenylate cyclase; Go, a protein abundant in brain (GNAO1; MIM 139311); and transducin-1 (GNAT1; MIM 139330) and transducin-2 (GNAT2; MIM 139340), proteins involved in phototransduction in retinal rods and cones, respectively (Sullivan et al., 1986 [PubMed 3092218]; Bray et al., 1987 [PubMed 3110783]). Suki et al. (1987) [PubMed 2440724] concluded that the human genome contains at least 3 nonallelic genes for alpha-i-type subunits of G protein; see, e.g, GNAI2 (MIM 139360), GNAI3 (MIM 139370), and GNAIH (MIM 139180).[supplied by OMIM

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Molecular Mass	64.68 kDa
AA Sequence	<p>MGCTLSAEDKAAVERSKMIDRNLREDGEKAAREVKLLLLGAGESGKSTIVKQMKIIH EAGYSEEECKQYKAVVYSNTIQSIIAIRAMGRLKIDFGDSARADDARQLFVLAGAAEE GFMTAELAGVIKRLWKDSGVQACFNRSREYQLNDSAAYYLNLDRIAQPNIPTQQ DVLRTRVKTTGIVETHFTFKDLHFKMFDVGGQRSERKKWIHCFEGVAAIIFCVALS DY DLVLAEDEEMNRMHESMKLFDSICNNKWFTDTSIILFLNKKDLFEEKIKKSPLTICYQE YAGSNTYEEAAAYIQCQFEDLNKRKDTKEIYTHFTCATDTKNVQFVFDAVTDVIKNN LKDCGLF</p>
Applications	<p>Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array</p>
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	GNAI1 guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1 [Homo sapiens]
Official Symbol	GNAI1
Synonyms	GNAI1; guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1; guanine nucleotide-binding protein G(i) subunit alpha-1; Gi1 protein alpha subunit; adenylate cyclase-inhibiting G alpha protein; Gi;

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Gene ID	2770
mRNA Refseq	NM_001256414
Protein Refseq	NP_001243343
MIM	139310
UniProt ID	P63096

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