

## Recombinant Human GNAL protein, GST-tagged

**Cat. No.** GNAL-45H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human GNAL(1 a.a. - 458 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	1-458 a.a.
<b>Description</b>	This gene encodes a stimulatory G protein alpha subunit which mediates odorant signaling in the olfactory epithelium. This protein couples dopamine type 1 receptors and adenosine A2A receptors and is widely expressed in the central nervous system. Mutations in this gene have been associated with dystonia 25 and this gene is located in a susceptibility region for bipolar disorder and schizophrenia. Alternative splicing results in multiple transcript variants.
<b>Form</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Molecular Mass</b>	78.9 kDa
<b>AA Sequence</b>	MGLCYSLRPLLFGGPGDDPCAASEPPVEDAQAPAPALAPVRAAARDTARTLLPRG GEGSPACARPKADKPKEKR QRTEQLSAEEREAAKEREA VKEARKVSRGIDRMLRD QKRD LQQTHRLLLLGAGESGKSTIVKQMRILHVNGFNPE EKKQKILDIRKNVKDAIVT IVSAMSTIIPPVPLANPENQFRSDYIKSIAPITDFEYSQEFFDHVKKLWDDEGVKA CFE RSNEYQLIDCAQYFLERIDSVSLVDYTPTDQDLLRCRVLTS GIFETRFQVDKVN FHM F

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DVGGQRDERRKWIQ CFNDVTAIIYVAACSSYNMVIREDNNTNRLRESLDFESIWN  
 NRWLRTISIILFLNKQDMLAEKVLGKSKIEDY FPEYANYTVPEDATPDAGEDPKVTR  
 AKFFIRDLFLRISTATGDGKHYCYPHFTCAVDTENIRRVFNDCRDIIQRM HLKQYELL

**Applications**

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);  
 Antibody Production; Protein Array

**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.

## GENE INFORMATION

**Gene Name**

GNAL guanine nucleotide binding protein (G protein), alpha activating activity  
 polypeptide, olfactory type [ Homo sapiens ]

**Official Symbol**

GNAL

**Synonyms**

GNAL; guanine nucleotide binding protein (G protein), alpha activating activity  
 polypeptide, olfactory type; guanine nucleotide-binding protein G(olf) subunit alpha;  
 adenylate cyclase-stimulating G alpha protein, olfactory type; guanine nucleotide  
 binding protein (G protein), alpha activating activity polypeptide, olfactory typ; guanine  
 nucleotide binding protein (G protein), alpha stimulating activity polypeptide, olfactory  
 type;

**Gene ID**

2774

**mRNA Refseq**

NM\_182978

**Protein Refseq**

NP\_892023

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<b>MIM</b>	139312
<b>UniProt ID</b>	P38405
<b>Chromosome Location</b>	18p11.22-p11.21
<b>Pathway</b>	Activation of GABAB receptors, organism-specific biosystem; Adenylate cyclase activating pathway, organism-specific biosystem; Adenylate cyclase inhibitory pathway, organism-specific biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem;
<b>Function</b>	G-protein beta/gamma-subunit complex binding; G-protein coupled receptor binding; GTP binding; GTPase activity; adenylate cyclase activity; guanyl nucleotide binding; metal ion binding; nucleotide binding; signal transducer activity; signal transducer activity;

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