

## Recombinant Human GNAL protein, GST-tagged

**Cat. No.** GNAL-46H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant Human GNAL(359 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>    | 359-458 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>   | 36.74 kDa  |
| <b>AA Sequence</b>      | DMLAEKVLGKSKIETYFPEYANYTVPEDATPDAGEDPKVTRAKFFIRD LFLRISTAT<br>GDGKHYCYPHFTCAVDT ENIRRVFNDCRDIQRMHLKQYELL   |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);<br>Antibody Production; Protein Array   |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|----------------------------|--|
| <b>Notes</b>               | Best use within three months from the date of receipt of this protein.   |
| <b>Storage</b>             | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.   |
| <b>GENE INFORMATION</b>    |  |
| <b>Gene Name</b>           | GNAL guanine nucleotide binding protein (G protein), alpha activating activity polypeptide, olfactory type [ Homo sapiens ]  |
| <b>Official Symbol</b>     | GNAL   |
| <b>Synonyms</b>            | 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; |
| <b>Gene ID</b>             | 2774   |
| <b>mRNA Refseq</b>         | NM_182978  |
| <b>Protein Refseq</b>      | NP_892023  |
| <b>MIM</b>                 | 139312   |
| <b>UniProt ID</b>          | P38405   |
| <b>Chromosome Location</b> | 18p11.22-p11.21  |

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**Pathway**

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;

**Function**

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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