

# Recombinant Full Length Human GNAO1 Protein, GST-tagged

**Cat. No.** GNAO1-5326HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b> | Human GNAO1 full-length ORF (BAG51601.1, 1 a.a. - 354 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | 354 amino acids                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | The protein encoded by this gene represents the alpha subunit of the Go heterotrimeric G-protein signal-transducing complex. Defects in this gene are a cause of early-onset epileptic encephalopathy. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2015]                                                                 |
| <b>Molecular Mass</b>   | 66.3 kDa                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | MGCTLSAEERAALERSKAIEKNLKEDGISAADVKLLLLGAGESGKSTIVKQMKIIHED<br>GFSGEDVKQYKPVVYSNTIQSLAAIVRAMDTLGIEYGDKERKADAKMVCDVVSME<br>DTEPFSAELLSAMMRLWGGSGIQECFNRSREYQLNGSAKYLYLDSLDRIGAADYQPT<br>EQDILRTRVKTTGIVETHFTFKNLHFRLFDVGGQRSEKRWIHCEDVTAIIFCVALSG<br>YDQVLHEDETTNRMHESLMLFDSICNNKFFIDTSIILFLNKKDLFGKEIKKSPLTICFPE<br>YTGPNTRYEDAAAYIQAQFESKNRSPNKEIYCHMTCATDTNNIQVVFDAVTDIIIANNLR<br>GCGLY |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay                                                                                                                                                                                                                                                                                                                                                      |

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                                                                                                                                                                            |
| <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>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                              |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                       |
| <b>Gene Name</b>        | GNAO1 guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O [ Homo sapiens ]                                                                                                                                                        |
| <b>Official Symbol</b>  | GNAO1                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>         | GNAO1; guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O; guanine nucleotide-binding protein G(o) subunit alpha; G ALPHA o; guanine nucleotide binding protein, alpha activating polypeptide O; GNAO; G-ALPHA-o; DKFZp686O0962; |
| <b>Gene ID</b>          | 2775                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>      | NM_020988                                                                                                                                                                                                                                                             |
| <b>Protein Refseq</b>   | NP_066268                                                                                                                                                                                                                                                             |
| <b>MIM</b>              | 139311                                                                                                                                                                                                                                                                |
| <b>UniProt ID</b>       | P09471                                                                                                                                                                                                                                                                |

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