

# Recombinant Human GNAO1, His-tagged

**Cat. No.** GNAO1-28088TH    **Lot. No.** (See product label)

## SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant fragment, corresponding to amino acids 8-329 of Human G0 Protein alpha with N terminal His tag, 322 amino acids, 37kDa.                                                                                                                                                                                                                                                             |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>            | 8-329 a.a.                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Conjugation</b>              | HIS                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Form</b>                     | Lyophilised:Reconstitute with 133 µl aqua dest.                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage buffer</b>           | Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>                  | Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                           |
| <b>Sequences of amino acids</b> | <p>EERAALERSKAIEKNLKEDGISA AKDVKLLLLGAGESGKS TIVKQMKIIHEDGFSGED</p> <p>VKQYKPVVYSNTIQSLAAIV RAMDTLGIEYGDKERKADAKMVCDVVS RMEDTEPFS</p> <p>AE LLSAMMRLWGD SGIQECFNRSREYQLNDSAKYYLDSLDRIGAADYQPTEQDILR</p> <p>TRVKT TGIVETHFTFKNLHFRL FDVGGQRSE RKKWIHCFEDVT AIIFCVALSGYDQVL</p> <p>HE DETTNRMHESLMLFDSICNNKFFIDTSIILFLNKKDLFG EKIKKSPLTICFPEYTGPN</p> <p>TYEDAAAYIQAQFESKNRSP NKEIYCHMT CATDT</p> |

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

## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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;                                                                                                                                                 |
| <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                                                                                                                                                                                                                                                                                                            |
| <b>Chromosome Location</b> | 16q13                                                                                                                                                                                                                                                                                                             |
| <b>Pathway</b>             | Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; Cholinergic synapse, organism-specific biosystem; Dopaminergic synapse, organism-specific biosystem; |
| <b>Function</b>            | G-protein beta/gamma-subunit complex binding; GTP binding; GTPase activity;                                                                                                                                                                                                                                       |

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guanyl nucleotide binding; metabotropic serotonin receptor binding;

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